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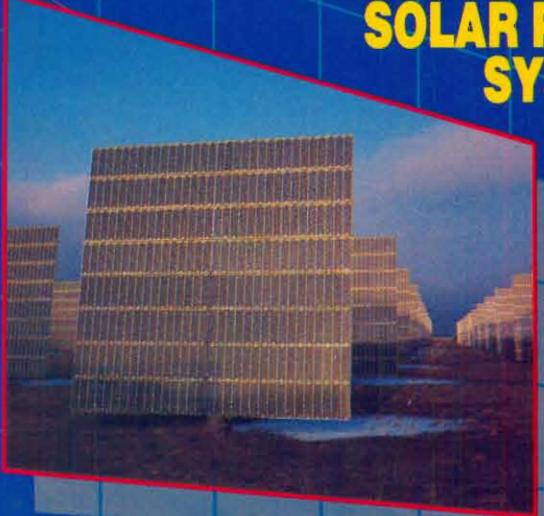
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MAY 1989 VOL. 11 NUMBER 5
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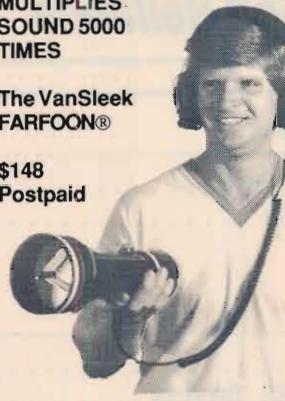
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AMERICAN SURVIVAL GUIDE

The Magazine of Self Reliance

MAY 1989 VOLUME 11 NUMBER 5

COVER:
This month's cover features
some of the survival equipment
in this issue. For more
about these photos, see pages
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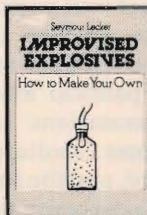


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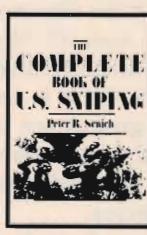


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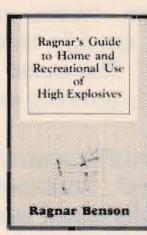


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TO THE POINT

The book Armed And Dangerous is typical of the Big Media, leftist view of survivalism

SEVERAL people who read ASG suggested I read the book *Armed And Dangerous: The Rise of the Survivalist Right* by James Coates, western states correspondent for the *Chicago Tribune*.

People interested in survival preparations will likely find this book disturbing, as I have, since its author goes to great lengths to convince its readers that almost all people involved in survival activities are right-wing extremists or likely to become such.

The book, in a series of well written and detailed accounts, profiles the activities and crimes of various religious and right-wing political extremists from such organizations and groups as The Order, Posse Comitatus, The Covenant, the Sword, and the Arm of the Lord, Identity Christianity and others. These groups are lumped together by the author under the term, "the Survival Right" and all their members are classified as survivalists.

A major theme of the book is that these individuals and groups are the harbingers of a vast and sinister movement of religious and political extremism brewing in America.

"Unexamined bigotry abounds in rural America," Coates warns, and "casual bigotry all too quickly translates into real hatred." The mood in America, he declares, "is growing ever more ugly."

Former President Ronald Reagan and conservatives in general, fundamentalist Christians and Mormons, rural Americans, gun enthusiasts, people who play paintball war games, "militaristic film" makers and manufacturers of "war toys," supporters of nuclear power and the Strategic Defense Initiative (which Coates calls "hawkish crusades") and the staffs of magazines such as *Soldier of Fortune* and *SWAT* are among the people Coates links with what he sees as a rising tide of right-wing extremism threatening the country, and particularly those groups and causes often represented as part of the liberal-left: Jews and blacks, homosexuals and feminists, and the poor.

Setting the tone for the book and

revealing his own considerable leftist bias in the first chapter, titled, "Where They Come From," Coates writes, "During Ronald Reagan's first presidential campaign in 1980, which was to take the United States on the biggest swing toward the right in its history, the candidate's speechwriters sought to emphasize that he no longer was merely a hired actor railing the cant of the ultra-conservative businessmen who had spent millions during the 1950s and 1960s making Reagan their TV spokesman. Instead, the 1980 campaign sought to present Reagan as the leader of a well-entrenched and totally respectable conservative American political movement."

Reagan used his acting skills, according to Coates, "to assure ordinary Americans that despite the fact that his stance was the most extreme right-wing posture ever assumed by a successful presidential candidate, it nevertheless was a reflection of the changed psyche of mainstream U.S.A." While he presents an interesting and informative picture of the lives and actions of the extremist movements and individuals mentioned above, Coates goes too far in contending that all these groups and individuals are typical of survivalism.

He quotes what is for the Big Media liberals one of the ultimate authority figures, a Harvard psychiatrist, who tells us that "the very process of laying survivalist plans is an anti-social act."

Preparing to survive nuclear war or other catastrophes is indicative of what the author refers to as "the Survival Sickness." Any rational person will realize that it is hopeless to even think of surviving a nuclear holocaust, Coates assures us.

He makes some concessions for those individuals whom he calls the "wor-kadai American survivalist." For the purpose at hand, he says, "this is a survivalist with a small s, not a political zealot, not a racist, not an anti-Semitic or adherent of Identity, the Posse or any other right-wing credo. This survivalist is just somebody with a natural drive for self-preservation

and a hope for getting past the inevitable nuclear exchange. But as has been clearly shown in earlier pages, there is an increasingly fine line that separates ordinary and presumably mentally healthy people who begin dabbling in small-s survivalism from those who burst forth on the scene with semiautomatics and machine guns blazing, full-blown members of the Survival Right."

It seems that just about everyone and everything that doesn't square with Coates' conception of the proper, liberal-left, order of things, is part of the sinister Survival Right.

He makes several references linking Mormons and fundamentalist Christians to the scary Survival Right. The Mormon leader Brigham Young is referred to as "the wild-eyed Mormon prophet." And Christian fundamentalists who "profess their undying loyalty to the State of Israel," Coates says, "also vow perpetual enmity toward such minorities as homosexuals and atheists. It is equally disturbing to listen to the racist undertones as Fundamentalist preachers rail against government aid to the poor, to hear them sound anti-Feminist themes by waxing poetic about the 'sanctity of the Christian family' and call hellfire and brimstone down upon the 'liberals' and 'secular humanists' who have become the movement's new targets."

Just about everyone involved in the Survival Right is anti-Semitic, according to Coates. "... Jews have been forced by a lengthy history of pogroms, persecutions and other travails to be ever vigilant for the next threat to their own survival... history has shown repeatedly that once intolerance is focused against one segment of society, it soon comes to bear against the Jews, no matter who was the original target."

The ultimate question, Coates poses at the book's end, "may not be who has the Survival Sickness, but rather, who is going to survive it."

With the acclaim heaped upon it by the media elite, it wouldn't surprise me if this book wins a Pulitzer Prize—"journalism's highest honor," according to *The New York Times*. But it nevertheless does a grave disservice to many thousands of reasonable, law-abiding, productive Americans interested in their own, their families' and their country's survival by condemning their actions and branding them as extremists. Once again, we've been had by the media — *Jim Benson*.

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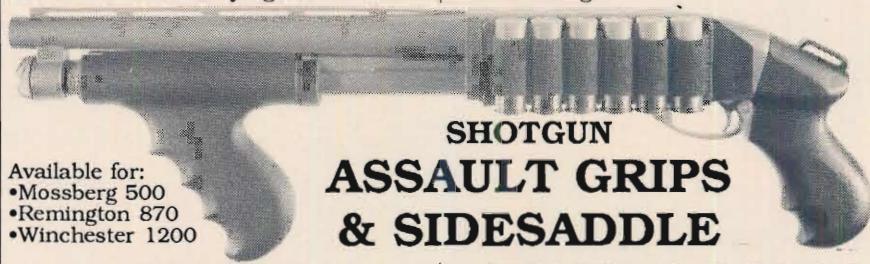
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#GB5978

Your Price **\$99.95**

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Length overall: 14 3/4"
Blade thickness: 5/16"
Weight, knife: 18.0 oz
Weight, sheath: 6.5 oz



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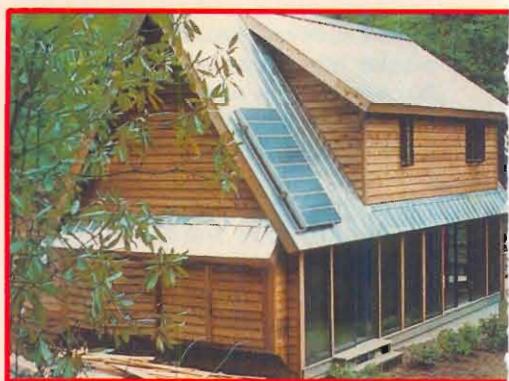
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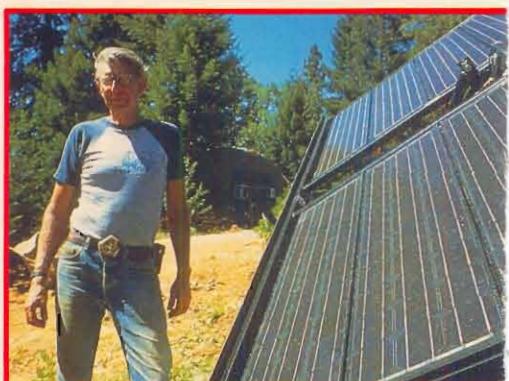
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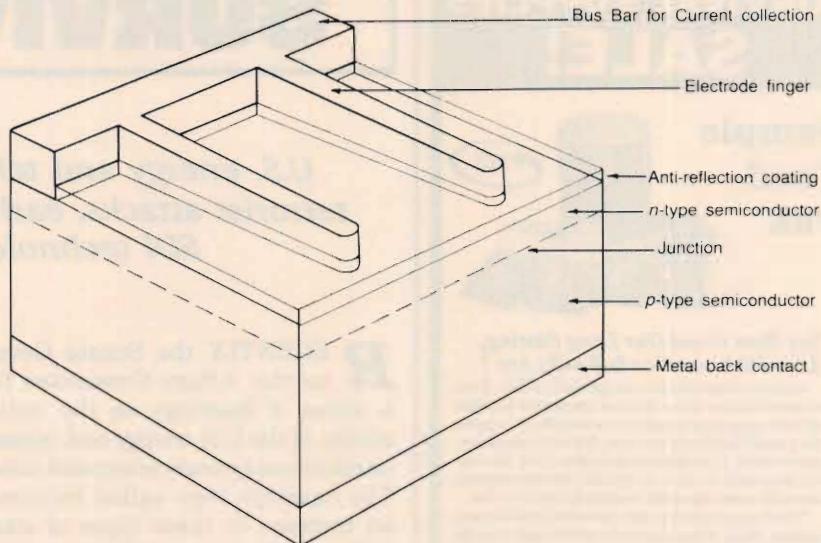
Solar electric systems are becoming increasingly more attractive to RV owners, ranchers, farmers, families with vacation cabins and survivalists with remote retreat shelters. As the price of solar cells continues to decline, the market for solar power is expanding to more and more people concerned with clean energy and the ability to become power grid independent.

It is the photovoltaic cell that makes electricity from sunshine possible. Most photovoltaic cells are wafer-thin objects between two and five inches across, usually made of silicon and thin wire. When sunlight shines on a solar cell, the pressure of contained electrons bombarded by photons within the top layer of the cell causes electron flow through fingerlike wires laid atop the cell. The electrons flow through the circuit, charge batteries or power light bulbs and then return to the lower layer of the solar cell. The whole process takes place because electrons must seek a balanced state within the orbits of nuclei.

Silicon, the main ingredient in the making of photovoltaics, is an element second only to oxygen in abundance. It accounts for about a quarter of the Earth's crust and is readily available in its raw form as silica quartz, or sand. To produce silicon, silica is fused to a melt and a controlled amount of carbon is added in a batch process. The carbon reacts to remove the oxygen as carbon dioxide, leaving relatively pure silicon, which cools into a block or ingot. Converting this to semiconductor grade silicon is expensive. The cost of the finished silicon accounts for at least half the cost of a finished cell.

Single crystal silicon cells are made as wafers cut from round ingots that have been "grown" from a crucible of molten silicon. Sawing the silicon crystal into wafers is an expensive part of the process. Half of the silicon ends up as dust. A new type of solar cell, called amorphous is produced by blowing silane-gas directly onto a substrate material, such as stainless steel. Silane gas production is a primary step in purifying silicon, so instead of the gas becoming a solid and then the solid being remelted and formed in ingots, it can be deposited directly. Amorphous cells are less efficient at producing electricity, but the savings in production costs more than offsets the loss.

Photovoltaic cells are sold in modular form. A module is an assembly of



SCHEMATIC VIEW OF A SINGLE-CRYSTAL SILICON SOLAR CELL.

individual photovoltaic (PV) cells and is sometimes called a solar electric panel. ARCO Solar, Inc., markets standard PV modules that produce approximately 40 watts peak output. The same module has been used on backwoods cabins in northern California and in the first major utility application of photovoltaics — a one-megawatt central power station operating east of Los Angeles near the town of Hesperia. The modular nature of photovoltaics has been a major factor in the dramatic drop in prices since the early 1970s. The energy needs of a family or a company can be estimated and then the proper number of modules can be bought to meet that need. Since everything is standardized, there are no extra costs for special parts or equipment. When expansion is required, it's a simple matter to obtain more modules.

Battery storage — In order to set up your own solar power system, you will need a way to store the electricity produced by the PV modules. Deep cycle batteries resemble 12 volt car batteries but have special features that make them better suited for solar power storage. If you used a car battery in your power system, it would lose power after the first 15 cycles of charge and discharge.

Even the best car battery won't last for more than about 75 cycles. A car battery is made to give bursts of energy until the alternator takes over. Then the alternator runs the car and recharges your battery.

A deep cycle battery can give out steady power for 300 to 1800 cycles of charge and discharge. Deep cycle batteries are made to give a steady flow of energy over a long period of time. That's why they're the most efficient way of storing and giving out power in an independent energy system.

A bank of storage batteries should be installed in a well-ventilated space that is protected from rain, snow and debris. They should be kept at an even temperature as close to 70 degrees as possible. If the batteries freeze they will have to be replaced and if they are fried (over 110 degrees) they will have shortened lives.

The installation of a controller is usually recommended on all but the smallest of systems. A controller senses when the batteries are fully charged and then shuts off the current from the photovoltaic modules. Some PV modules like Arco's M65, are self regulating and don't require controllers.

When you begin to wire up your system you'll have to decide what kind of output you want to use. A recreational vehicle (RV) like a mobile home or large trailer will usually be set up as a 12 volt DC system. There are many accessories available that run on 12 volts including fluorescent fixtures and incandescent light bulbs that screw-in and work just like AC bulbs. With car stereos, TVs and other cigarette socket appliances made for the auto market, 12 volt DC systems are the best bet for an RV solar system.

Smaller vacation homes could use a

(Continued on page 58)

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SURVIVAL LINE

U.S. energy and telecom systems vulnerable to terrorist attacks, earlier child vaccinations urged, SDI technology may combat meteors...

RECENTLY the Senate Governmental Affairs Committee held a series of hearings on the vulnerability of the U.S. energy and telecommunications systems to terrorist attack. The hearings were called because of an increase in these types of attack in Europe, Central and South America.

For instance, John McDonald, the head of the telecommunications security panel of the National Academy of Sciences, said that "a few well-placed hand grenades would crash major portions of the domestic and long-distance networks."

Regarding the energy distribution system in the U.S., Charles White, a spokesman for the National Electrical Manufacturers Association, noted that some 4,000 large transformers handle the distribution of almost all the electricity produced in the U.S. He also noted that there is only one U.S. factory which produces the massive, 3-story, 200-ton transformers, and that manufacture and delivery time of these transformers is about a year. Mr. White said that if a coordinated attack were launched against a number of these transformers, a blackout affecting one-third of the U.S. could result and that there might be an extended period of electricity shortages throughout the country.

Shot In The Arm — Public health officials are concerned about an alarming increase in the number of U.S. pre-school children contracting whooping cough (pertussis), mumps, and measles. Many parents, officials note, are delaying having their children vaccinated against these common childhood diseases until they reach school age, when vaccinations are required for enrollment.

Officials cite the doubling of reported pertussis cases in pre-school age children between 1981 and 1987, as an example of this trend. Until the development of the pertussis vaccine in the 1940s, the disease struck up to a quarter-million children each year kill-

ing as many as 7,000.

Also contributing to this trend are some parents' worries about the side effects caused by some vaccinations. "Parents are more concerned about the vaccine than they are about the disease," notes Dr. George Peter, editor of the American Academy of Pediatrics guidebook on vaccinations. The pertussis vaccine, usually given as part of the diphtheria, tetanus, and pertussis, DTP, series of vaccinations, has been shown to cause brain damage in about 1 of every 300,000 doses. Yet says Dr. Peters, the risk of brain damage caused by pertussis itself is about 13 times higher than that of the pertussis vaccine.

Public health officials continue to urge parents to have their children vaccinated against the full range of childhood diseases as early as possible.

New SDI Twist — In a recent article in a Washington based newsletter, *New Technology Week*, Dr. Edward Teller outlined a new role for the space-based sensors and computers which would be deployed as part of the U.S. Strategic Defense Initiative.

Dr. Teller noted that the SDI space-based sensors could be aimed away from the earth so as to be able to detect and track meteoroids which were on a collision course with the earth. He said that orbiting sensors would be able to provide advance warning of up to a year prior to collision, and that with such warning it would be possible to, "send out something (a hydrogen bomb) to meet it (the meteoroid) and give it a little shove sideways."

Scientists currently estimate that meteorite strikes on earth account for between \$10-\$100 million in damages each year. In 1908 a massive meteorite hit a remote part of Siberia with a force equivalent to a 12-megaton hydrogen bomb, and flattened forests over an area of more than 1,000 kilometers. For more on this subject see *ASG* September 1987, "Cosmic Calamities." •

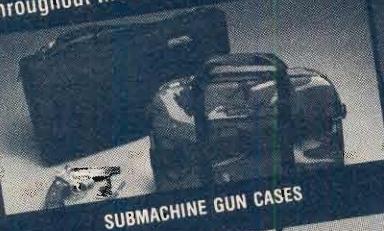
THE COMPLETE SYSTEM

CASES

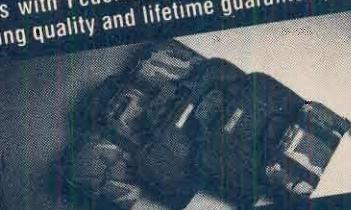
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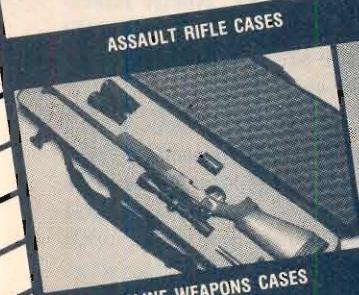
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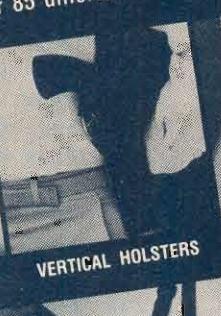
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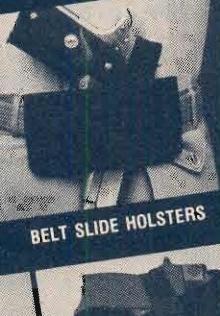
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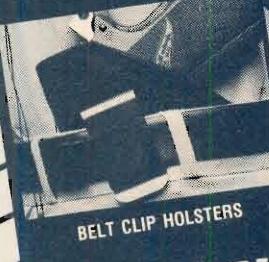
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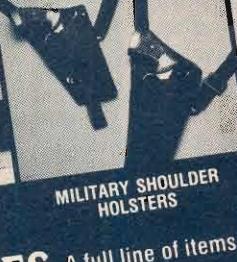
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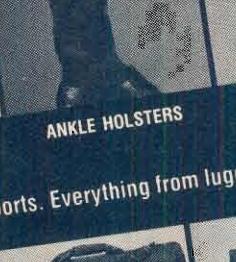
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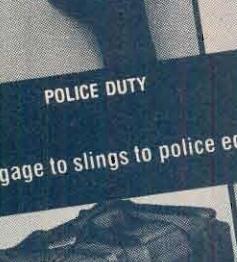
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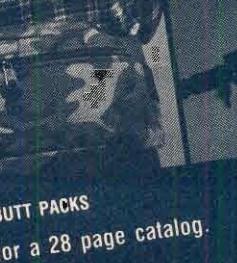
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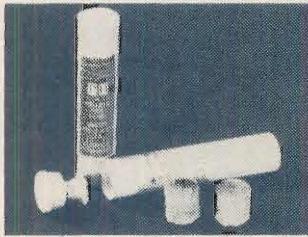
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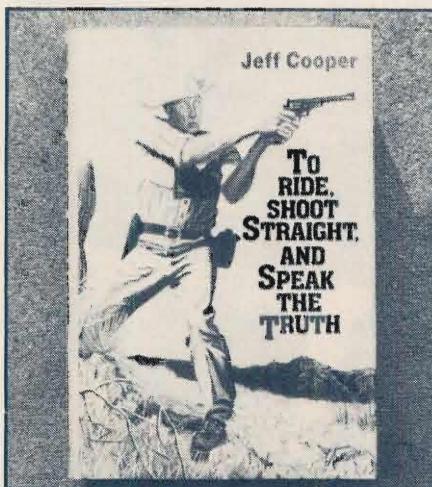
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BOOKS/VIDEOS



To Ride, Shoot Straight, and Speak the Truth

by Jeff Cooper, Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 367 pages, hardcover; \$26 plus \$3.50 S&H.

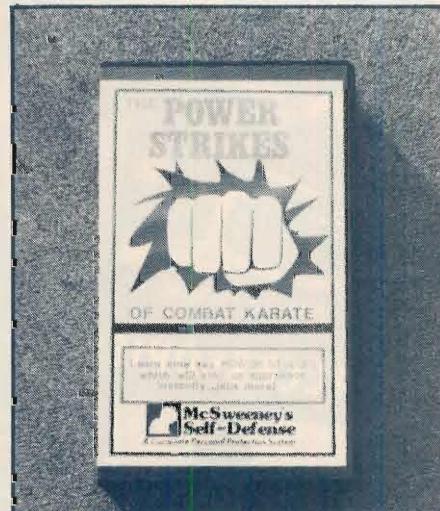
If you own a gun and believe in the right to keep and bear arms, you should own this book. Jeff Cooper, one of the world's foremost authorities on shooting, states the case for public firearms ownership and use as no one else can. Cooper's classic writing style and command of language combined with his knowledge and appreciation of weaponry make this a book shooting enthusiast shouldn't be without. "The author squarely faces the facts of modern life, and assumes that the armed citizen is the correct answer to the armed sociopath," says the book jacket statement. The book is "a comprehensive compendium of fact and philosophy for those who prize their personal dignity and treasure their personal means of preserving it, in unflinching opposition to the everlasting encroachments of Big Brother and his socialist juggernaut." This is the second of Cooper's anthologies, following *Fireworks* in 1980. The title of the book, from lines cherished by Theodore Roosevelt, originated in ancient Persia, the author tells us, and had to do with the training of young noblemen, the purpose of which was to instill courage and character in them. Chapters include:

"Notes for Non-Shooters," "The Root of Evil," "Elements of Survival Tactics," "Military Pistols," "Principles of Pistol Sighting," "The Firing Stroke," "The General-Purpose Rifle," "Elements of Rifle Sighting," "The Caliber Game," "Rimfire in Riot Control."

Besides extensive discussion of handgun and long gun techniques and tactics, there are sections on hunting and fascinating stories of people, weapons and survival.

The Power Strikes of Combat Karate, a video featuring John McSweeney; McSweeney's Self Defense System, P.O. Box 1216, Dept. ASG, North Riverside, IL 60546; 60 minutes, VHS; \$29.99 plus \$3 postage and handling. Illinois residents add sales tax.

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The Lapin Papers #6, The Boom Book, Outstanding Explosives and Immobilizers, by Lee Lapin; CEP, Inc., P.O. Box 865, Dept. ASG, Boulder, CO 80306; (303) 443-2294; softcover, 35 pages; \$8. Complete set of six reports sell for \$32. Add \$3 for postage and handling.

The *Lapin Papers* are a set of six reports containing information on auto theft, creating and maintaining alternate identities, spy schools, diamonds,

and sources for surveillance electronics. Number six, titled *The Boom Book*, includes information on the making of explosives. Many of the formulas involve dangerous chemicals and procedures that are extremely hazardous and should not be tried. Learn how to make black powder, napalm, hydrogen tri-iodide, thermite, sodium chlorate compound and others. For information purposes only.



First Angel, by Ed Mann; a novel published by TOR Books as part of its Soldier of Fortune Adventure Series. Softcover, 310 pages. Copies are available directly from the author. Contact: Ed Mann, Dept. ASG, P.O. Box 5118, Orange, CA 92613. Softcover, 310 pages; price postpaid is \$5.

First Angel is not the typical post-nuclear war survival story written by authors who know more about guns than they do nuclear war. Survivalists are not depicted as mental cases as the liberal press so often does, but as mainstream, solid citizens who take appropriate precautions to deal with the dangers of the modern world. John Robert Hamilton, a bank officer and major in the National Guard is the main character. After locating his family on a large farm out in the country he returns to Louisville to rejoin his National Guard Unit. The town is hit by a nuclear weapon as part of a massive Soviet attack. Major Hamilton is torn between his duties as a soldier and that of being a husband and father to his family. Chaos and crime are putting a tremendous strain on the civil authorities. "Wolf packs" roam the country attacking poorly

(Continued on page 68)

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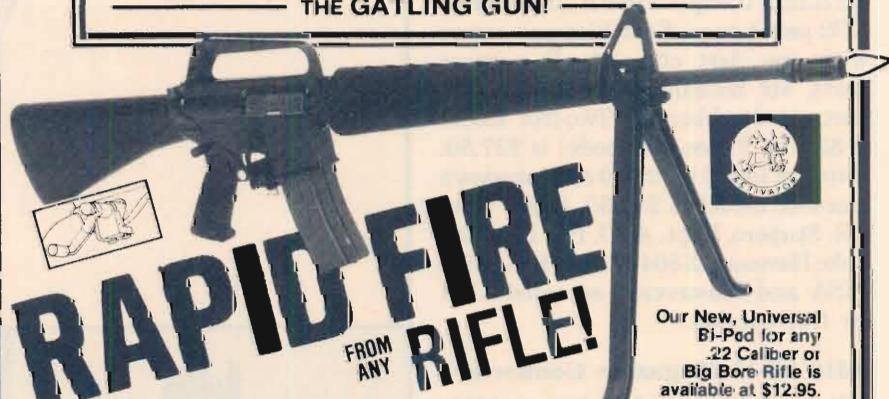
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Assault Grips are injection molded from high-impact black ABS polymer. The combination of injection molding and ABS makes them almost indestructible. Installation of these grips requires no alteration to the shotgun you own (Remington 870, Winchester 1200 or Mossberg 500) and only takes

a few minutes. Complete instructions are included with the grips, along with the necessary hardware for mounting the rear grip and a special wrench for mounting the fore end. The shotgun may at any time be returned to its original condition. The design of the grips is borrowed largely from the Thompson Submachine gun. It allows

recoil energy to be transferred evenly to both hands. The shape, angle and fingered notches all contribute to painless positive control. Speed of accurate firing is also increased. The Rear Assault Grip is \$14.95 and the fore end Assault Grip is \$19.95 from Adventurer's Outpost, Dept. ASG, P.O. Box 70, Cottonwood, AZ 86326; (602) 646-5814.



.625 Cal. Magnum Blowgun

These .625 caliber Magnum blowguns are up to 20 percent faster and more powerful than smaller .38 and .40 caliber blowguns and it outperforms CO₂ pellet guns. Each blowgun comes with one dart clip, 24 all purpose darts, six broadhead darts, six stun darts, and rubber tip. Two-foot model is \$25.50. Three-foot model is \$27.50. Four-foot model is \$29.50 and takedown four-foot model is \$31.50. Order from J.R. Stupero, Dept. ASG, P.O. Box 209, Lake Havasu, AZ 86403; (602) 855-8095. VISA and Mastercard accepted. Call for free catalog.

M16/AR-15 Magazine Connector

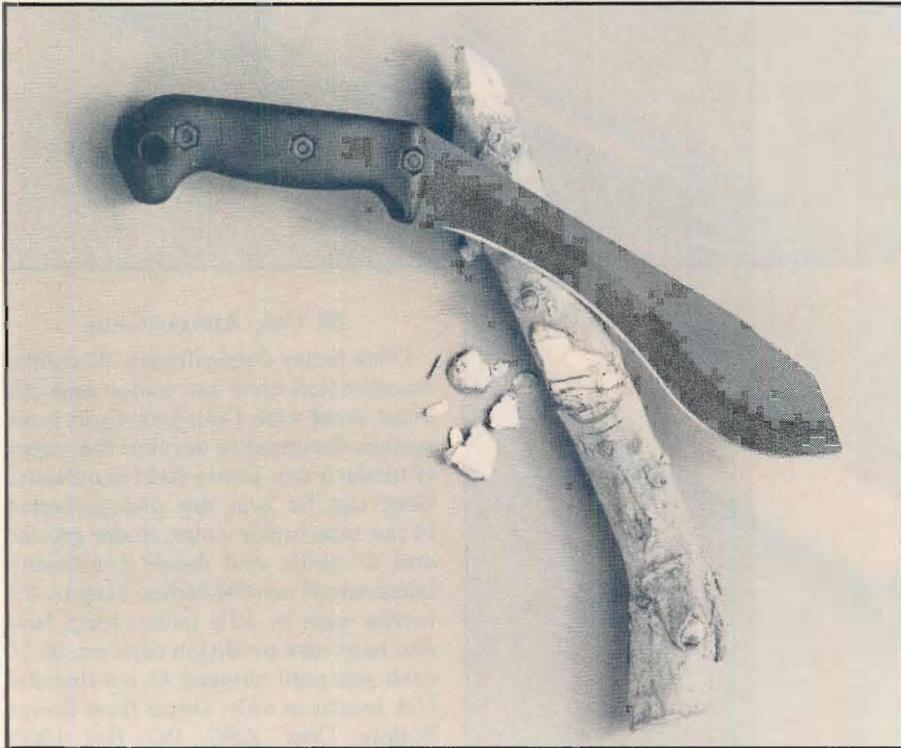
Sierra Supply has Israeli-issue M16/AR-15 30-round magazine set connectors. The connector was made and designed to offer instant magazine change capabilities without the usual taped together magazines. These connectors fit all of the M16-AR-15 family of rifles and accept all military aluminum 30-round magazines. Combat proven in Palestine and Lebanon. Each connector is \$5.50 postpaid or two for \$8.50 postpaid in the continental U.S. One connector for \$6 postpaid or two for \$9 postpaid to Alaska, Canada and Hawaii. Order from Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822.



Machax Survival Tool

Borrowing from the ancient design and weight distribution of the Gurkha Kukri knife, the Machax Survival Tool has a differential grind on the blade, providing more of a slicing angle on the inside of the curve and more of a chopping and splitting angle closer to the tip. The edge is sharp all the way to just before the grip for close-up work. The blade is a $\frac{1}{4}$ -inch thick 4140 chrome-moly steel that is phosphate

coated for rust resistance. The full-tang blade is coupled with Zytel scales for a positive grip. Weighing 20 ounces, the Machax can be quickly sharpened with a file, stone or even a rock if necessary. It comes with either a tough black leather or black nylon sheath. An excellent all-around machete-ax tool for a variety of tasks. Available from Becker Knife & Tool Corp., Dept. ASG, P.O. Box 44179, Cincinnati, OH 45244; (513) 231-9446.



SKS Receiver Mount

B-Square makes a new receiver-mounted scope mount for SKS 56 rifles. It attaches to the gun's receiver by simply replacing the cover retaining pin to provide a rigid no-movement mount. It's low over the bore and can be removed and installed without change in zero. The new mount is see-through so the gun's iron sights can be used with the scope installed, and it has a standard dovetail for standard rings, lasers, and other devices. Use it with conventional rifle scopes. Suggested retail price is \$59.95. B-Square mounts are available at gun dealers everywhere or directly from B-Square, Dept. ASG, P.O. Box 11281, Fort Worth, TX 76110-0281; (817) 923-0964.



Pocket Power Converter

The Pocket Power Converter instantly converts 12 Volt DC electricity into 115 Volt AC electricity. Plug it into your vehicle's cigarette lighter and it can run standard and fluorescent lights, electronic test and maintenance equipment, sound and video equipment, data and communications equipment, small appliances such as fans, shavers and mixers, recharge battery powered devices, etc. It has a continuous output of 100 watts and a peak output of 200 watts. Output frequency is 60 Hz. No load current draw is 0.06 amps. Height is 1.2 inches. Width is 3.5 inches. Length is 4.5 inches. Weight is 14 ounces. Available for \$149 from Photocomm, Inc., Dept. ASG, P.O. Box 649, North San Juan, CA 95960; (800) 544-6466.



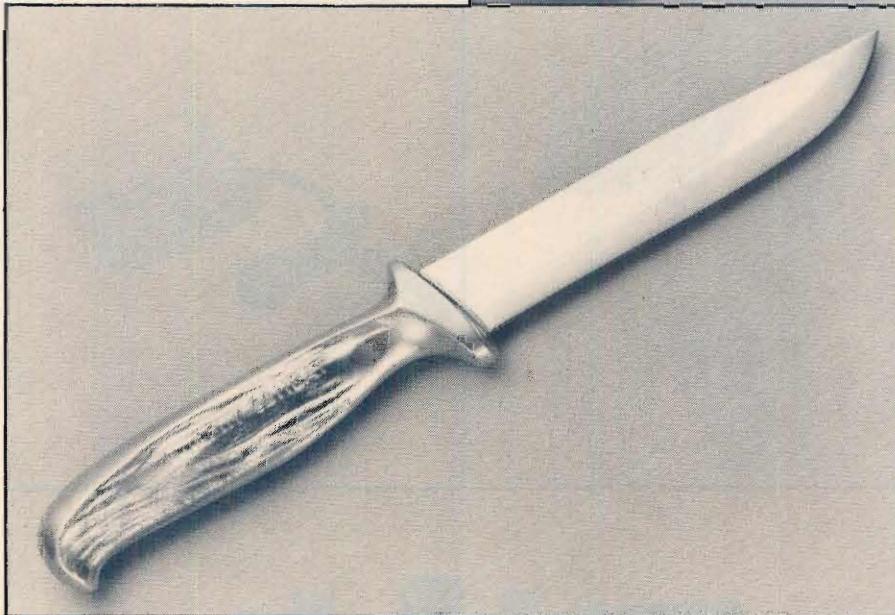
NEW PRODUCTS

SOG-Tech Bowie

Designed with the utmost utilization of modern technology, the SOG-Tech bowie knife from SOG Specialty Knives Inc. is an innovative cutting machine equal to any challenge and any environment. It features a 7-inch long, .250-inch thick, RC 57-58, scientifically heat treated carbon steel blade with a hollow grind. The fluid grind lines vividly express the superiority of the American bowie as the working man's blade of choice in either camp or combat settings. The single brass guard allows the greatest degree of downward pressure to be applied during use. For total control, SOG utilizes an ergonomically influenced Kraton handle

which completely encapsulates the knife's full tang. The sheath for the SOG-Tech is as advanced as the knife itself. The double stitched saddle quality leather snugly grips the blade

regardless of orientation. Suggested retail is \$119.95. For details contact SOG Specialty Knives, Inc., Dept. ASG, P.O. Box 1006, Santa Monica, CA 90406; (213) 451-4292.



Ek Murphy Combat Knife

Ek Commando Knife Company is now the exclusive worldwide distributor for the Murphy Combat Knife Company. The aluminum-handled World War II Murphy Combat Knife is the first model in the Murphy line. During WWII David Z. Murphy and his son Dave custom built aluminum-handled military fighting knives for American servicemen. Now after 50 years, the Murphy Combat Knife Company proudly re-introduces this famous fighting knife with some important improvements. Dave Murphy is personally hand grind-

ing the blades and hot pouring the cast aluminum hilts onto tangs — a design technique pioneered by his father. The high carbon steel blade is polished to an extra sharp edge and is easy to resharpen. The knife weighs less than half a pound. Each knife comes with a WWII-era U.S.A.-made brown leather sheath which fits current-issue wide military belts. The knife is available for \$149 from Ek Commando Knife Company, Dept. ASG, 601 North Lombardy Street, Richmond, VA 23220; Call toll free at (800) 468-5575.

.30 Cal. Ammo Cans

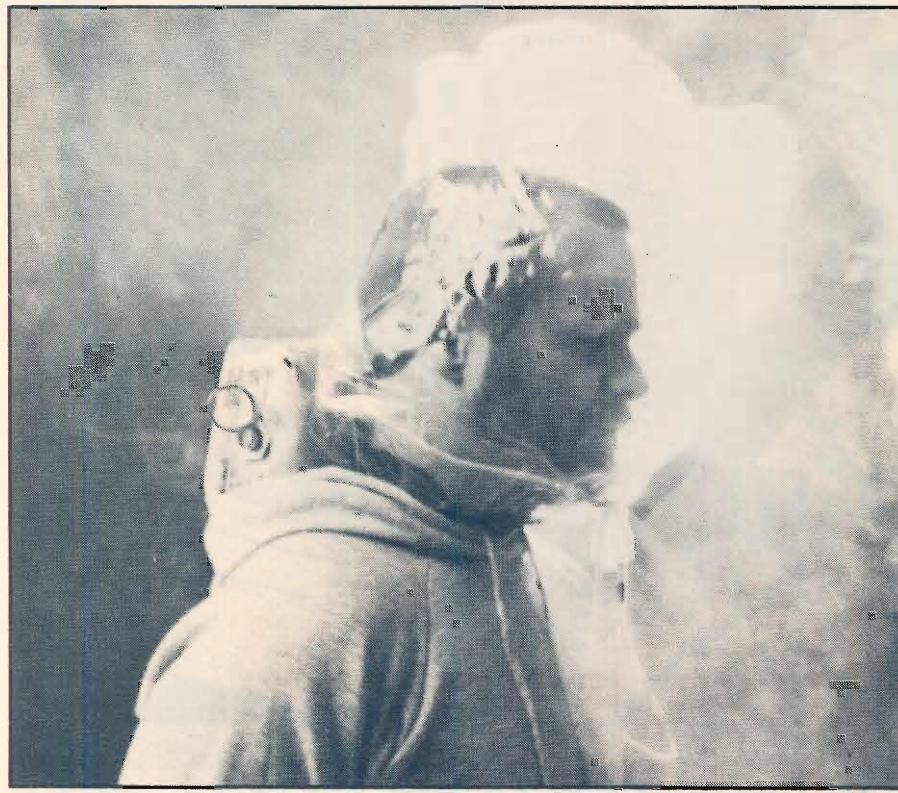
Ultra heavy duty military .30 caliber ammunition cans are water and element proof with their lock-tight latch system designed to survive the rigors of modern day battle field conditions. Gear can be kept dry and protected in the cans under water, under ground and in arctic and desert conditions. Dimensions are 6½ inches deep by 3½ inches wide by 10½ inches long. New and near new condition cans are \$5.50 each postpaid shipped to continental U.S. locations only. Order from Sierra Supply, Dept. ASG, P.O. Box 1390, Durango, CO 81302; (303) 259-1822.



5 Minute Air Escape Device

Made by Robert Shaw Company, a leading supplier of life support/saving devices, the self contained 5 Minute Escape Device Life Saver Air Capsule is designed to provide the user with five minutes of air in oxygen-deficient atmospheres such as fire, smoke, chemical, etc. Features a full transparent head cover and can be put on in less than 10 seconds. Robert Shaw has sold its division which makes these units to International Safety Devices, 16717 Smoketree St., Hesperia, CA 92345; (619) 244-9404. International Safety Devices makes and sells the device

now for almost \$300 new and will refill them for \$15. SI (Survival Inc.) was able to purchase 100 of the units, each with 5,000 lbs. of operating air pressure (the exact amount filled from the factory), so they have no air loss and are still packed in the original containers. They are \$99.95 plus \$4 S&H each or two for \$195 postpaid from SI, Dept. ASG, 15600 S. Figueroa St., Gardena, CA 90248; (213) 324-8855 or 8859; Outside California call toll free (800) 533-7415. The units sold by SI will be refilled for \$15 each by International Safety Devices. Contact ISD for details.



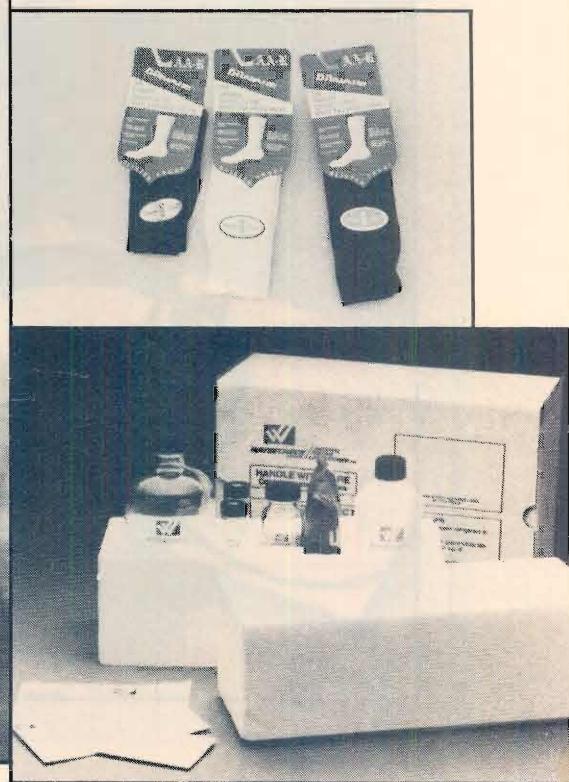
Water Test Kit

National Testing Laboratories has introduced Watercheck + Pesticide Option, making it possible for homeowners to test their drinking water for 93 Environmental Protection Agency listed contaminants quickly, conveniently and affordably. Watercheck + Pesticide Option measures everything from metals, pesticides, PCBs and solvents to herbicides and bacteria. Within five days of receipt of a sample the lab sends the customer a complete

report of their findings plus a detailed explanation of the results and recommendations for corrective action. The company's laboratories are certified and use EPA analytical and quality assurance procedures. The 93 tests in Watercheck + Pesticide Option include 20 pesticides, many recently added by the EPA to the Safe Drinking Water Act's list of hazardous substances. NTL's Watercheck sampling kit makes it easy for the homeowner to draw water sam-

Runique Socks

Runique AA-R Socks represent several major advancements in sock performance that are compelling to the active person regardless of the activity. The socks are guaranteed to prevent blisters — NO BLISTERS! Also guaranteed for 1,000+ miles of performance, drier feet than your current socks, no toe seam "rope" across the toes, and a feel that rivals cashmere. They feature a unique two-layers of yarns of DuPont Thermax and Wonderspun yarns spiral wrapped in nylon. Available in a variety of sizes and colors from Foster-Boyd, Inc, Dept. ASG, Lahaska, PA 18938; (800) 648-6249.



ples correctly and conveniently and return them safely to the lab for analysis. It contains a pre-addressed return mailer, five sample bottles containing needed preservatives and detailed step-by-step instructions. For more information contact National Testing Laboratories at (800) 458-3330. In Ohio, call (216) 449-2525. Or write to National Testing Laboratories, Dept. ASG, 6151 Wilson Mills Road, Cleveland, OH 44143, Attention Betty Tone. •

Five Classes:

New Novice Ham License

Tactical voice communications for the beginning Ham radio operator. . .



A typical Novice Amateur Radio setup: an HF transceiver, antenna tuner (optional), headphones, log book, etc. (Martin Hasa).

By J. Lincoln Thorner

AMATEUR Radio has always been famous for its heroic contributions to emergency communications and disaster relief.

When all else fails, Hams have been there to provide local tactical communications and long distance links with the outside world for victims of hurricanes, earthquakes, floods and

man-made catastrophes like plane crashes and fires.

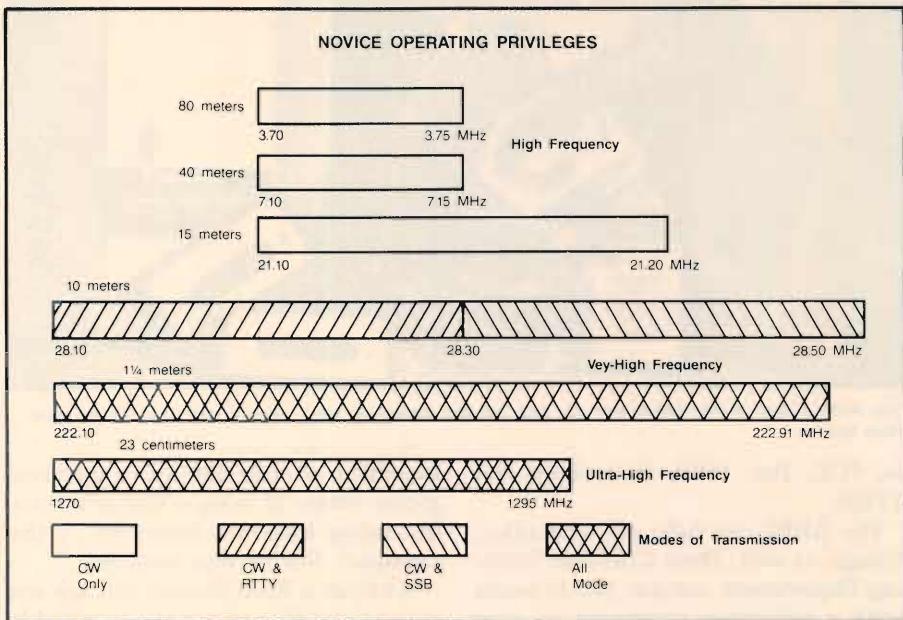
In time of war, Hams have always provided a pool of trained radio operators and technicians for the military.

Few people would question the value of Amateur Radio, for a survivalist group facing disaster or just a family on a ride in the country or a walk in the woods who want to "stay in touch."

The problem has always been that in order to qualify for the more

advanced forms of communications, like Single Sideband or FM voice, or even computer communications, an individual had to pass the difficult exams for the higher classes of FCC Amateur Radio license. The simpler test given for the beginner's Novice class license only allowed a person to use Morse code CW, a useful stepping stone to the higher licenses, but of limited tactical use to the survivalist.

This has now all changed! In a



The new Novice license allows both worldwide and local-tactical operations. You can use Morse CW, voice or even computer data transmission.

historic move, the FCC has recently enacted the Novice Enhancement Program. In an effort to attract more people to Ham radio, the entry level Novice licensee now has access to long range and tactical voice and data communications privileges previously reserved for those with the harder to get higher class licenses.

Novices still retain the world-wide Morse CW communications privileges they had before in the High Frequency (shortwave) Ham bands. Now, however, they can use high power, super-efficient, Single Sideband (SSB) voice, or even state of the art computer-to-computer data communications, on the 10 meter HF band. On VHF and UHF bands Novices can even use tactical FM voice transceivers and repeaters (automatic relay stations), similar to the type used by police and fire departments. This means that a Novice operator can maintain constant, high-confidence contact with other individuals, or groups, over a wide range of terrain and road conditions, using hand-held and mobile radios.

Most of the old, relatively easy test remains the same. In accordance with international treaty, the FCC still requires that an Amateur Radio operator learn Morse code. The Novice license, however, requires that the applicant copy at a rate of only 5 words per minute. This is quite slow, barely faster than simple memorization would give you and need not be as difficult as most people fear. (See "Conquering the Code" in the September and October 1988 issues of ASG). The 20-ques-

tion, entry level, multiple choice written test had only 10 additional questions added to it; these are simple questions, testing basic knowledge about the new license privileges. The new Novice can, of course, study and practice code in order to qualify for even more operating privileges granted by higher licenses, but now he can jump right into tactical and data communications with only his entry level license.

The specific privileges granted the new Novices are as follows: CW with up to 200 watts of transmitted output power on the following HF bands, 3.70-3.75 MHz (80 meter band), 7.10-7.15 MHz (40 meters), 21.10-21.20 MHz (15 meters) and 28.10-28.50 MHz (10 meters). On 10 meters, in addition to CW, the Novice may use radioteletype from 28.10-28.30 MHz (this includes both the old fashion mechanical or new computer types) and SSB voice from 28.30-28.50 MHz. It should be noted that even the Novice Ham can legally use 50 times the power output allowed Citizen Band operators. In VHF, Novices can use any of their HF operating modes, with the addition of 25 watts of FM voice. This puts them on par with military, police and other public services that use this mode, including the use of repeaters that allow the same static-free, reliable, wide-area coverage that they enjoy.

Another interesting new benefit of the Novice license is the use of 5 watts on the huge 1270-1295 MHz band, *using any mode permitted to Hams!* This includes facsimile and television.

The very short wavelength of this band (23 centimeters) allows the use of very small, extremely high-gain antennas that provide narrow, longer range and hard to intercept communication. These frequencies are similar to the type used for point-to-point and satellite-to-earth communications. Also, it should be remembered that all the benefits of computer bulletin boards for organization and the dissemination of information can now be brought to bear without recourse to the normal, vulnerable, telephone system using Amateur Radio. Now, even Novices can enjoy this popular new service.

Test — The exam for the Novice class Amateur Radio license is administered by two volunteer examiners. For the higher classes of license, three examiners certified by an FCC-recognized Volunteer Examinations Coordinator must conduct the test; with the Novice license the examiners do *not* need to be certified.

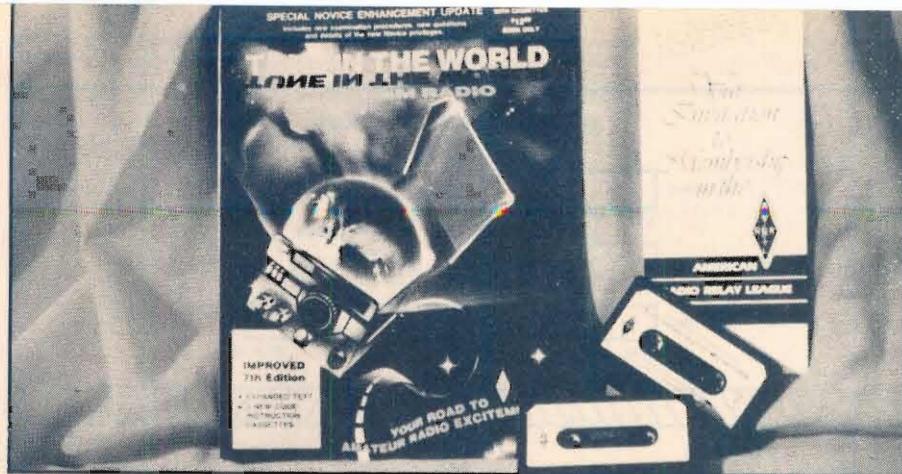
Knowledge of Morse code is required, there is no getting around this. I have advocated, however, for a long time that anyone who is serious about survival should already know the code. There are numerous tapes and even computer learning courses commercially available to help you. They are available from Radio Shack, AEA, and the American Radio Relay League. The ARRL is the national Ham organization and it produces a whole array of useful publications on Hamming. Among them is one that is super useful to prospective Novices, *Tune in the World*, a tape and text set discussed elsewhere in the article. An inexpensive key and buzzer, or code-practice-oscillator is fine for sending practice. Again, for background on Morse code, and how to do it right, your first stop need be no further than *American Survival Guide*, in the issues I mentioned. The test can consist of a conversation sent in Morse code, with the applicant required to pass a 10 question multiple choice test (70 percent correct is passing), or 5 minutes of text sent in Morse, with the applicant getting at least 1 minute of continuous perfect copy out of it. With a little determination and patient practice, neither need be difficult.

You will need a Federal Communications Commission form 610 in order to obtain a license, once you've passed your exam. You can obtain a couple of form 610s with a call to your local FCC Field Office, if you live near one of them (most big cities have one), or

New Novice Ham Licence

by writing to the FCC in Gettysburg, PA. The American Radio Relay League will be happy to send you a couple of forms if you send them a stamped, self-addressed envelope. The ARRL will also be happy to provide your volunteer examiners with a pre-prepared Novice exam, again, just for the cost of an SASE. One of your examiners should write asking for one, giving his call letters and class of license. The examiners can role their own exam, if they prefer, using the FCC question pool. The 300 question pool can be obtained either from the FCC, or just look in the back of your copy of *Tune in the World*. Yes, that's right! You can actually study the questions themselves, but you must not see which ones are on *your* exam, before exam time. Also, if you fail the test, you can take one every 30 days until you pass... but you've got to get a different set of questions on each exam. From the ARRL, from whom you can buy a *Tune in the World*, obtain an FCC form 610, and even have a test sent to your examiner, at 225 Main Street, Newington, CT 06111.

Some tips on filing out the form 610 are as follows, ignore Section I, in Section II, check box 2C, "EXAMINATION FOR NEW LICENSE" and check the box marked NOVICE, skip 3 & 4, fill out 5, 6, 7 and 8 (you may *not* give a Post Office box for station location, if the station location is different from your mailing address, use both; if your permanent station location has no street address, do as I did in a small North Dakota town and give the physical location, e.g., "100 yards southwest of the Post Office"). Answer, "NO" to item 9, unless you plan on building antenna towers on the end of airport runways, or in a National Wilderness area... you've really got to go out of your way to create a "significant action"... don't worry about it! Check "NO" at number 10 and skip 11 and 12. Check "NO" on 13 and skip 14 & 15. For goodness sake, remember to sign and date your application in boxes 15 & 16 (also, don't let your examiners forget to sign their part... this is the cause of more returned applications than anything else!). You examiners fill out Section IIIA. Once you've passed your test and filled out your form 610, send it to the FCC. The FCC address



The ARRL's *Tune In The World* text and tape set has everything you'll need to get your Novice class Ham license.

is, FCC, Box 1020, Gettysburg, PA 17325.

The ARRL can help you with other things, as well. Their Club and Training Department can put you in touch with a volunteer instructor in your area. They compare your Zip code with the Zip codes of the volunteers in your area.

This volunteer can also serve as one of your examiners. Many Amateur Radio clubs have training programs and give classes at regular intervals. This takes some of the loneliness out of learning. Almost all clubs are affiliated with the ARRL and they can tell you the ones in your area.

Beyond Novice — There are five classes of Amateur Radio license. Above Novice, there are the Technician, General, Advanced and Extra classes of license. Each one is more difficult to earn than the one before, and comes with significantly greater operating privileges.

The Novice license has always been a great way to practice (particularly on the international High Frequency CW bands) for the higher licenses. It is also one great way to have fun. Many Hams specialize in one of the many sub-hobbies in Hamming. Some of them are using Amateur Radio space relay satellites, experimenting with new rigs they build themselves, computer and computer bulletin board communications, operating from remote sites, like tropical islands or mountain tops, or just chatting (just chatting can be with Hams from South Africa to Siberia, remember?). It has also proven to be one of the most constant aids to disaster and emergency communications.

The more you learn, the more on-the-air practice and the higher you progress in licensure, the more valuable your Ham license will be. Novice is a great way to start. As a matter of policy, I recommend that *all* the

members of your family or survival group obtain at least a Novice license (including kids over about 10... the youngest Novice was only 5!).

Without a Ham license you are not going to be able to use the invaluable repeater stations that Hams run, nor to communicate with Hams. Getting caught operating without a license is not only stupid, it can and has, prevented people from ever being allowed by the FCC to have a license. Novice is just too easy, and just too valuable not to get.

I further recommend that your family or group select a "Radio Officer" who will be in charge of communications preparations and practice and who will obtain a higher class of license, as soon as he or she can. It would be great if every member got at least a General class of ticket, but at least one should, as a matter of policy.

There are a number of ways of communicating by radio. Citizen Band is one, for example, cellular telephone another, but nothing compares with the power, quality, range, cost effectiveness, training and (why not?) the sheer enjoyment of Amateur Radio. The Novice license has always provided an easy to get entry into this wonderful pastime, but, up to now, it shut the licensee out of the important benefits of tactical and long-range voice communications.

With today's new Novice license, any survivalist individual or group can immediately jump into this more advanced kind of communications. Now, the kind of training and practice they need to fulfill their communications needs is there, even while they work on earning a higher class of license.

The beginner can now enjoy the fun and excitement of Hamming, while preparing for the emergency communications needs of his community. The test is easy, the hobby is great, and the survival value is beyond price. •

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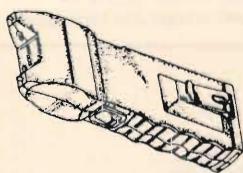
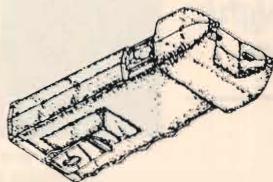
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Defend yourself against muggers, dopers, rapists or any attacker without deadly force. Our "Stun Guns" will instantly "scramble" any assailant's nervous system causing immediate, but temporary paralysis! By simply touching your attacker anywhere, he will drop to the ground a helpless blob of "jelly". Effective even through many layers of clothing, our Stun Guns are not lethal and are safe to the user. They cannot transmit shock back to you. Operate on a 9-volt battery (not included). Several models available.

STANDARD STUN GUN:

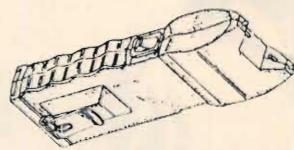
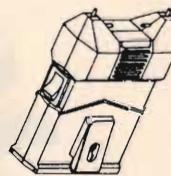
Our best selling gun. 60,000 volts of stopping power.
#A007.....\$49.95



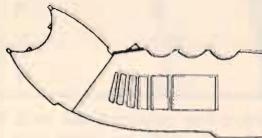
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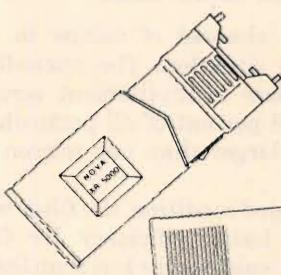
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CAP-STUN acts as an inflammatory agent, rather than an irritant like Mace and tear gasses. CAP-STUN will even control subjects such as persons not able to feel pain, persons under the influence of drugs or alcohol, psychotics, and dogs.....all areas where Mace and other products are notoriously ineffective. CAP-STUN canisters contain a solution of 1% oleoresin capsicum derived from hot peppers as the active ingredient. The propellant blend and valve design provide the proper spray pattern in a cone-shaped mist with an effective range of 10 feet. The formula in CAP-STUN will not decompose, degenerate or otherwise be altered by age. All effects are strictly temporary and will disappear within 30 minutes. CAP-STUN is now being successfully used as a non-lethal weapon by over 500 law enforcement agencies. Although designed for and used primarily by law enforcement, CAP-STUN is an ideal personal weapon and is now available from GUARDIAN Products to the general public. CAP-STUN is designed to replace chemical Mace and other tear gas products and comes in four sizes for all needs. Each CAP-STUN comes complete with leather holster.

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#LP1.....3/4 oz.....\$14.95

#LP2.....2 oz.....\$22.95

#LP6.....4 oz.....\$25.95

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to irritating
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and highly
toxic gases...*



The smoke hood unfolds quickly for protection against smoke and toxic gases.



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Staff Report

OFFICE workers in today's high-rise office buildings, travelers staying in luxurious hotel towers, and the passengers of modern jet aircraft — all are confined in spaces where fire can cause dangerous levels of smoke and toxic gases.

The majority of deaths and injuries in fire situations are not caused by heat or flames, but are a direct result of exposure of the victim to smoke and toxic gases. Heat and flames are res-

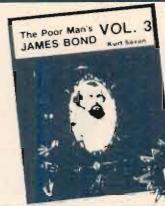
ponsible for less than 20 percent of fire related fatalities.

The Survivaid Smoke Escape Hood reduces exposure to irritating particulates and many of the highly toxic gases given off when common materials burn, e.g., polystyrene, polyurethane, PVC, PTFE, polyester, nylon, wood, etc. Survivaid provides protection to the eyes, skin, hair and respiratory organs. The hood is made using a high-temperature resistant polyimide film.

The Survivaid filter does not remove carbon monoxide, nor does it generate oxygen. Its specific function is to en-

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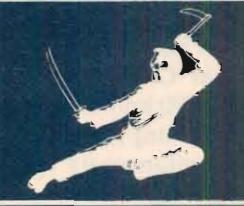
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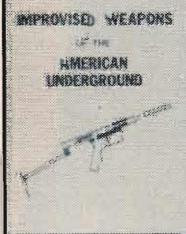
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ANYONE who has taken a course in Cardiopulmonary Resuscitation (CPR) knows the accepted method of ventilating a person who isn't breathing spontaneously is to open the airway and give mouth to mouth ventilations.

Anyone who has actually done CPR on a human knows mouth to mouth is not a pleasant experience for the rescuer.

Very frequently the person who has suffered a heart attack will vomit. This is why "finger sweeps" are taught

Ventilatory Assistance in the Field

With the prevalence of debilitating and fatal disease, most people now hesitate to perform mouth to mouth resuscitation...

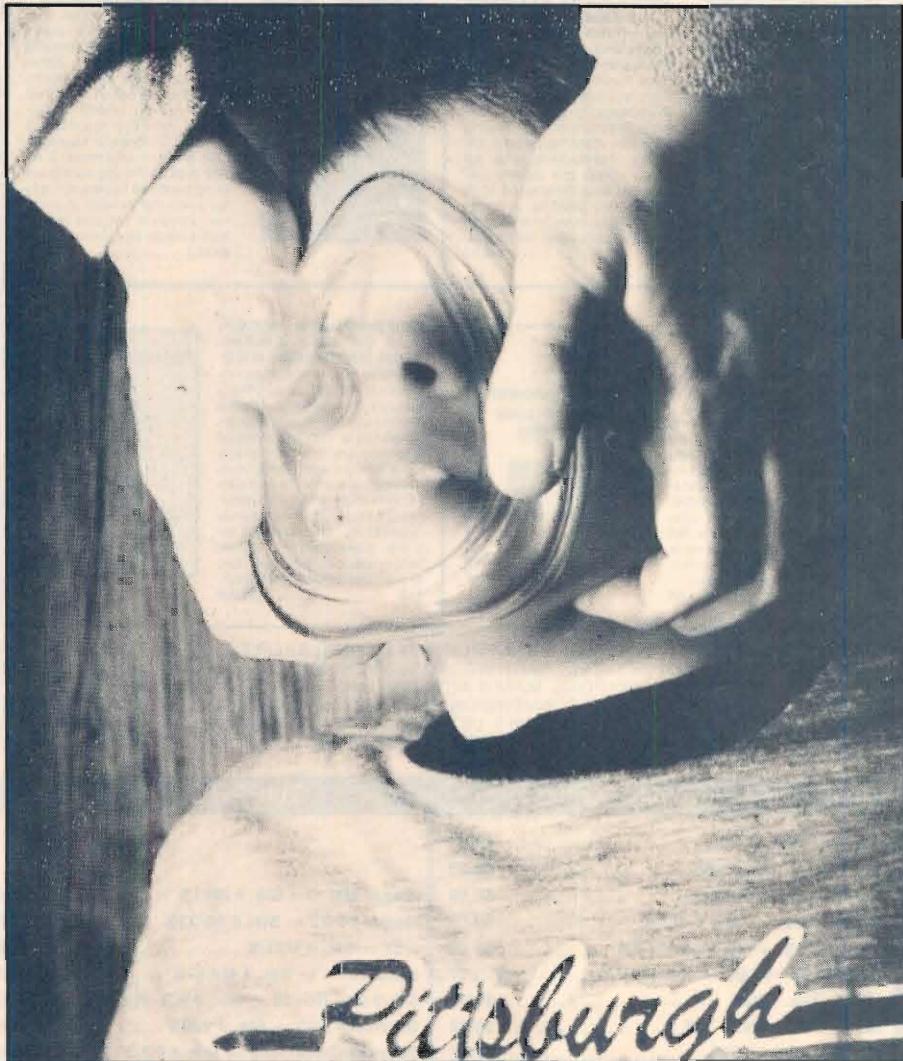
as a method to clear the airway. If the person has not vomited, after you have done mouth to mouth for a couple of minutes, he probably will.

No matter how good an airway you have established using the chin lift or jaw thrust, each breath you put into that patient's mouth will be divided between the lungs and the stomach.

Eventually the air that goes into the stomach will come back out, bringing with it some of the patient's gastric contents. Even in an "uncomplicated" cardiac arrest, the chances of a rescuer getting a face full of vomit are extremely good. If ventilatory assistance is required due to trauma, in addition to vomit, the rescuer may have to contend with blood and/or other secretions. So in addition to insulting the rescuer's aesthetic sense, the potential for exposure to infectious disease is introduced by simply doing "good, acceptable" mouth to mouth.

The advantage of mouth to mouth is obvious — special equipment is not required. If the patient's airway is obstructed it will be apparent with the first attempt to ventilate. Mouth to mouth, direct skin to skin contact, provides an excellent seal. Therefore the air goes into the patient's upper airway, not past the nose or eyes or chin.

The obvious solution to the problems for a rescuer having to place his mouth on a patient's face is to place a mask over the patient's mouth and nose and have the rescuer breathe into the mask. This has the advantage of keeping the rescuer's face off of the patient's face while still noting the compliance (acceptance of air into the lungs) or resistance to the ventilation.



Most pocket masks require two hands to hold them in position and still may not provide an effective seal over a child's face.

The problem of the patient vomiting is not solved with this device. As a result of the design, in fact, the vomit is funneled into the rescuer's mouth.

Within the last several years, various companies have begun marketing "one way" valves that are inserted between the rescuer and the mask.



A rescuer preparing the PtL Airway for use in resuscitation.



"Blind" placement of the PtL Airway.



Cutaway mannequin view of the PtL in place.

Thus, anything coming out of the patient's mouth is deflected back toward the patient's face. This system stores easily in a pocket size plastic box and is referred to as a "pocket mask."

Under the right circumstances the pocket mask works quite well. Difficulties arise when the mask is used on a person whose face is other than average in shape or size. The pocket mask is not sufficiently flexible to seal on every patient's face. Even when this device fits perfectly on a patient's face, it requires two hands to seal and to properly maintain in position. The price of a pocket mask with one

way valve is anywhere from \$10 to \$15 depending on the brand and where it's purchased.

Hospitals and ambulances use a device known as a bag valve mask assembly instead of a pocket mask or mouth to mouth. This device consists of a face mask, a one way valve and a resuscitator (squeeze) bag. Most also are equipped with an oxygen reser-

voir. This device, usually a thin walled, pliable bag, is attached to an oxygen source. As the resuscitator bag is squeezed, air passes through the one way valve into the face mask. As pressure on the resuscitator bag is released, the one way valve closes and the resuscitator bag fills with ambient air (or oxygen if the reservoir is

(Continued on page 66)

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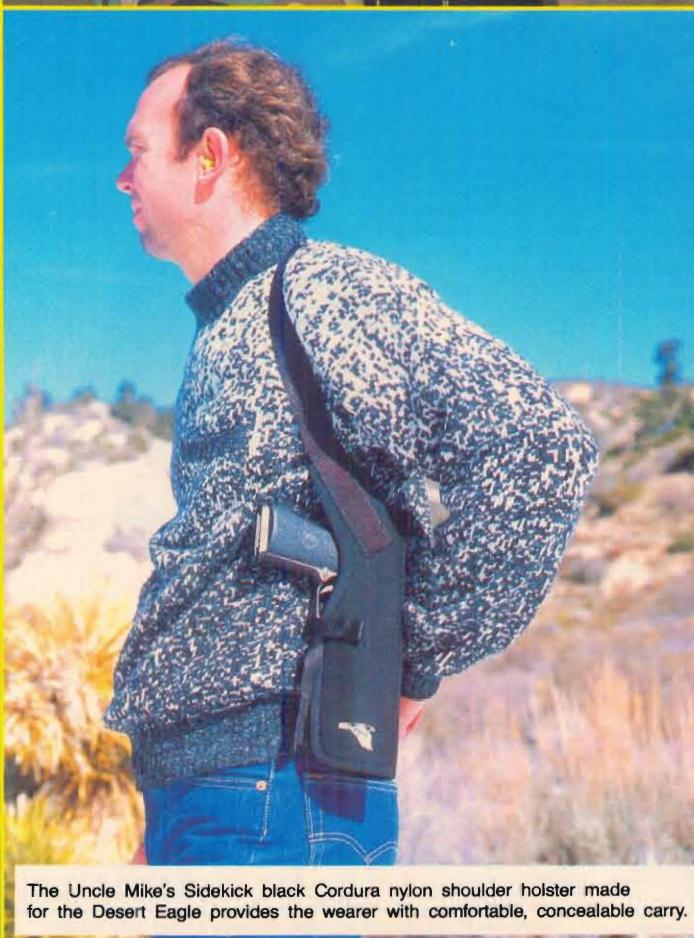
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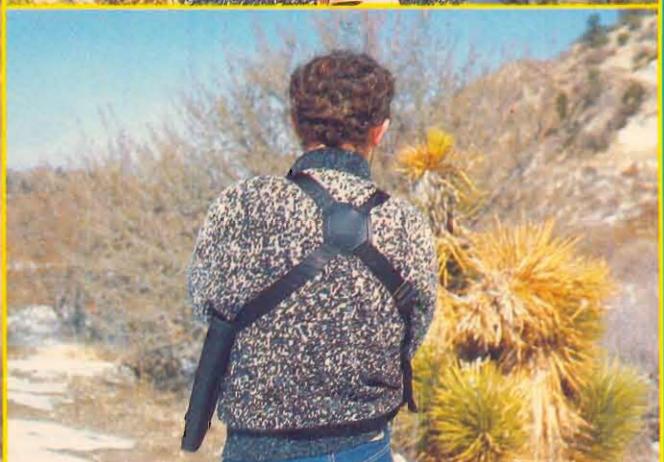
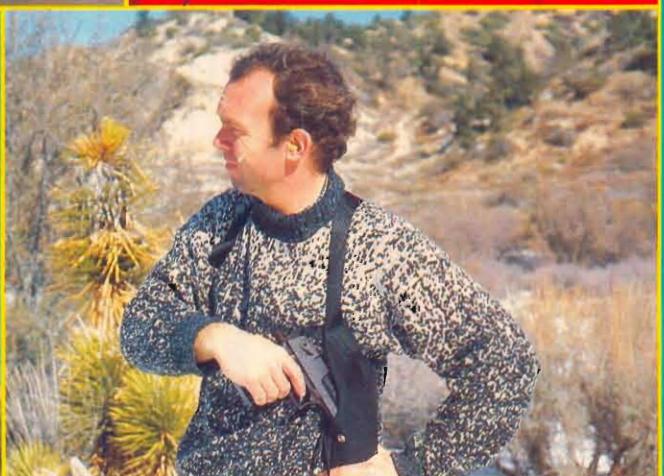
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The new Desert Eagle .41 Magnum is fired with PMC 210-grain jacketed hollow point ammunition. Inset: standard finish is black oxide.



The Uncle Mike's Sidekick black Cordura nylon shoulder holster made for the Desert Eagle provides the wearer with comfortable, concealable carry.



Desert Eagle .41 Magnum Pistol

Firepower and performance in an intermediate magnum caliber...



Shooters obtained excellent accuracy with the .41 Magnum Desert Eagle out of the box. This group was fired from a standing position using a two-hand hold about 15 yards from the target.



The slide catch is long and narrow and required quite a bit of pressure on it to close the slide when it was locked in the open position.

By Jim Benson

THE big Desert Eagle gas-operated semiautomatic pistol is now available in .41 Magnum caliber as well as .357 and .44 Magnum.

The .41 Rem. Magnum option for the Desert Eagle will likely be a popular one for those shooters who like the hefty Desert Eagle but desire it in an intermediate magnum caliber.

Since the Desert Eagle frame accepts .357, .41 or .44 Magnum components, you can have one pistol that fires all

three calibers. The .41 and .44 Magnum conversion kits available from Magnum Research, Inc., U.S. distributor for the Desert Eagle, include slide, bolt, barrel, recoil springs, magazine and carrying case.

Standard barrel length for all calibers is 6 inches and 10- and 14-inch barrels are also available. These can all be changed in seconds without tools. The .41 Magnum components are of course available in all the same finishes and take the same accessories as the other calibers.

The gas-operated, rotating, locking bolt Desert Eagle with polygon rifled barrel is made from precision cast and machined steel to the strict military standards of the manufacturer, Israel Military Industries.

Stripping for cleaning and reassembly are not difficult and no tools are required.



Standard sights are fixed. Rear sight is a square notch. Front is a ramped blade.

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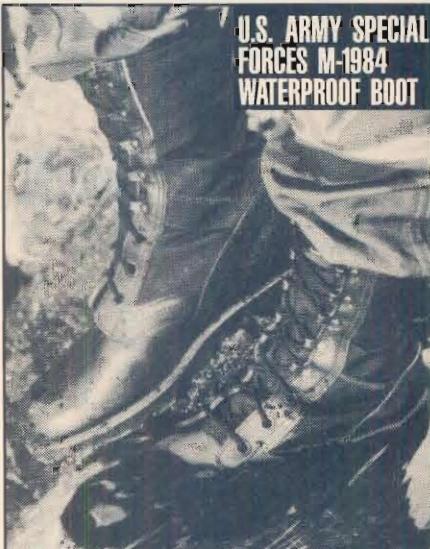
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Desert Eagle .41 Magnum Pistol



Magazine holds 8 rounds.

One safety note here: The Desert Eagle has an ambidextrous thumb safety. It's possible to disassemble and reassemble the safety cylinder assembly in reverse order so the fire functions indicator of the safety will also be reversed. It's recommended that you do not disassemble the safety mechanism. Disassembly of the safety is not necessary for routine maintenance.

Our test .41 Magnum Desert Eagle with standard 6-inch barrel weighed in at 3 lbs., 14.5 ounces empty (without magazine). With a loaded 8-round magazine the gun weighs about 5 lbs.

We took the gun to a public shooting area with boxes of PMC and Winchester .41 Rem. Magnum 210-grain jacketed hollow points. Semi-jacketed bullets such as these are recommended in the owner's manual as providing the best functioning in the Desert Eagle. You should not use unjacketed lead bullets unless they are of a gas check design. And full metal jacketed bullets should be used only if they have a gas checked base (no open lead core base).

With its large size and weight, Desert Eagle is intended for two-handed firing. Although the gas operation serves to reduce recoil, we found that felt recoil was still considerable with the powerful .41 Magnum cartridges, although by no means unmanageable. The weight of the barrel and muzzle

keeps muzzle rise down for better control in rapid firing.

We were shooting in a mountainous area (about 5,000 feet elevation) in cold weather and this, combined with a lot of lubricant on the gun parts, possibly affected the initial performance of our new Desert Eagle. Or the minor functioning problems could be due to break-in of the new pistol.

We noted on the first few rounds fired that the slide did not close fully a couple of times and had to be pushed closed, and two or three rounds of the initial rounds fired did not seat properly when chambered by racking the slide.

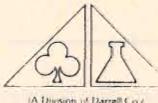
As we fired more rounds through the gun, however, it functioned better and better until, by the time we had run close to 100 rounds through it, it was performing flawlessly.

We found that out-of-the box accuracy was excellent. We used a standard sight picture with the gun's fixed sights, firing with a two-handed hold without a rest at targets 15 yards away.

All in all, we find the .41 Magnum Desert Eagle to be a superb firearm. The middle magnum caliber option makes the Desert Eagle that much more versatile and valuable for its owner, who can now fire in it any of the major revolver magnum cartridges commonly available everywhere. •

Desert Eagle .41 Magnum Pistol: Tech Specs

Caliber	.41 Rem. Mag. (conversion Kit for standard .357 frame)
Length (6" barrel)	10.6"
Height	5.7"
Width	1.25"
Weight, empty	62.5 ounces
Trigger reach	2.75"
Sight radius (6")	8.5"
Bore rifling	polygonal 1 turn in 18"
Operation/action	gas/semi auto
Magazine capacity	8 (plus 1 in chamber)
Finish	standard black oxide (others optional)
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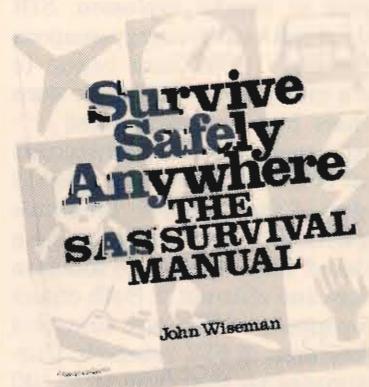
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SDI: Progress Versus Politics

Star Wars Update:

With the end of the Reagan presidency, SDI lost its most eloquent spokesman...

Photos courtesy of Department of Defense

by Michael Pietrantoni

SIX years ago, President Reagan outlined to the country a revolutionary vision. One in which mankind no longer maintained the peace through the threat of mutual nuclear annihilation, but rather through the creation of defenses which would render nuclear missiles obsolete. That vision was known as the strategic defense initiative, SDI, and was to become perhaps the single most controversial project undertaken during the Reagan years.

In the years since its birth much has happened in the SDI program. Rapid progress had been made in many promising new technologies. Technological spinoffs are already beginning to reach the civilian marketplace. Indeed the technical successes of the program so far have forced its opponents to shift their arguments against it from "it can't be done" to "it shouldn't be done." At the same time, supporters of the program have seen its budget cut yearly. These cuts have forced SDI administrators to delay or even abandon some of the more expensive and exotic technologies which had been considered highly promising.

SDI was begun in 1983 as a program designed to identify, develop, and test systems and technologies required for a comprehensive ballistic missile defense, BMD. All research efforts were to be coordinated through the newly created Strategic Defense Initiative Office, SDIO.

Early in the program the SDIO decided to divide its research efforts into five broad categories.

1) Sensing and surveillance systems: This program seeks to develop the sensors necessary to acquire, track, target and kill ballistic missiles and their

warheads throughout their flight path, from launch to warhead impact. Also part of this program is the development of sensors which can assess damage caused to incoming missiles and warheads by various BMD systems.

2) Development of directed energy weapons, DEWs. These are the laser and particle beam weapons which earned for SDI the "star wars" label. Initially it was thought that it would be this type of "exotic technology" weapon which would be the backbone of a BMD system.

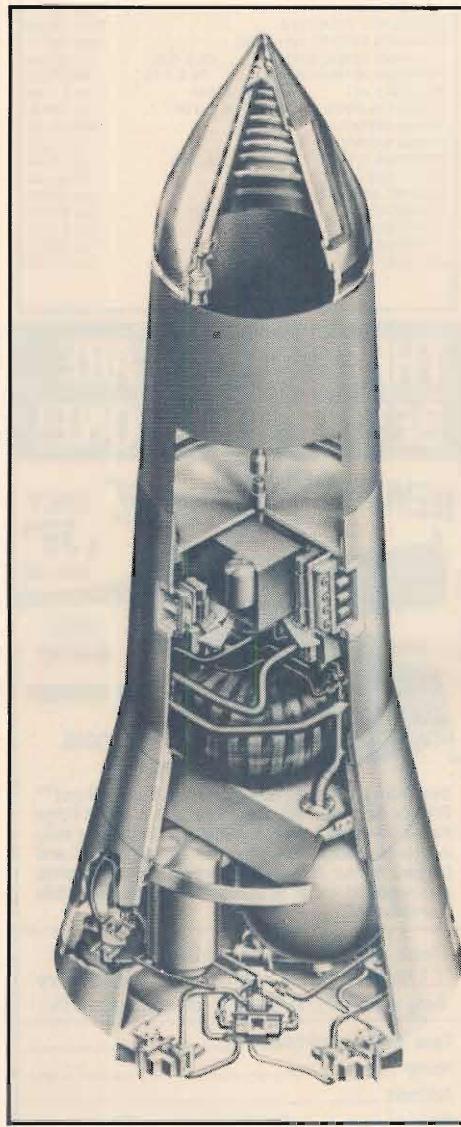
3) Development of kinetic energy weapons, KEWs. These systems work to destroy a target missile or warhead by impact or nearby explosion. SDI researchers call kinetic energy weapons "smart rocks." KEWs have begun to assume a much larger BMD role than researchers had first envisioned.

4) Battle management architecture. The goal of this SDI research effort is the design of the computer programs and algorithms which would enable a multi-tiered BMD system to function effectively and efficiently. Both critics and proponents of SDI say that this is the key area of SDI research. Current estimates are that from 10 to 100 million lines of computer programming code might be required to operate and control a full scale BMD system.

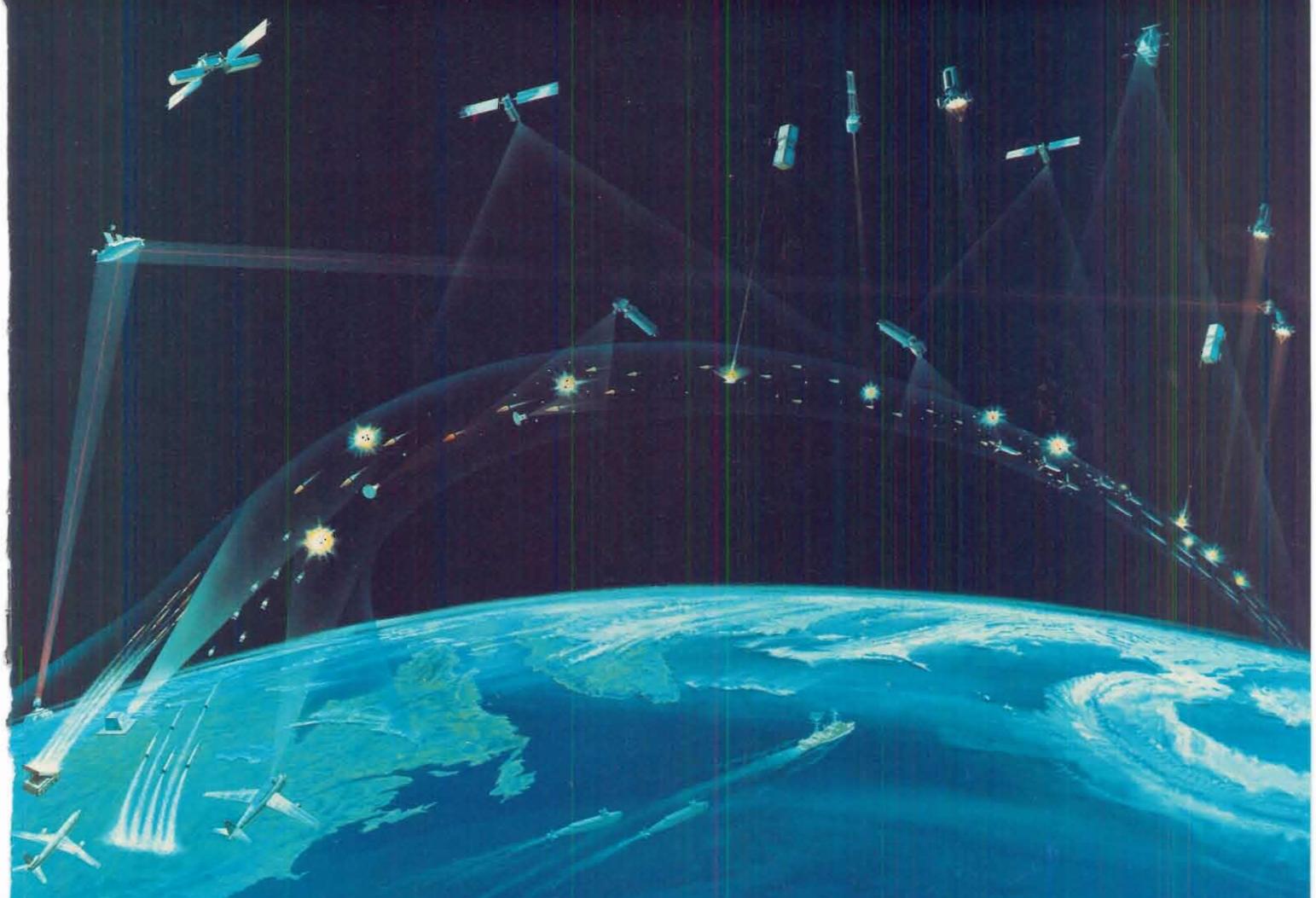
5) Survivability. Any deployed BMD systems will have to be able to survive a full range of weapons and countermeasures which the Soviets could be expected to use in an attack. This program seeks to insure that U.S. BMD systems and subsystems will be able to cope with any form of Soviet attack while still continuing to function.

All five of the above mentioned SDI research programs have seen progress over the past six years. In that time a number of significant tests have

been carried out in order to validate some of the more promising developments coming from the research labs.

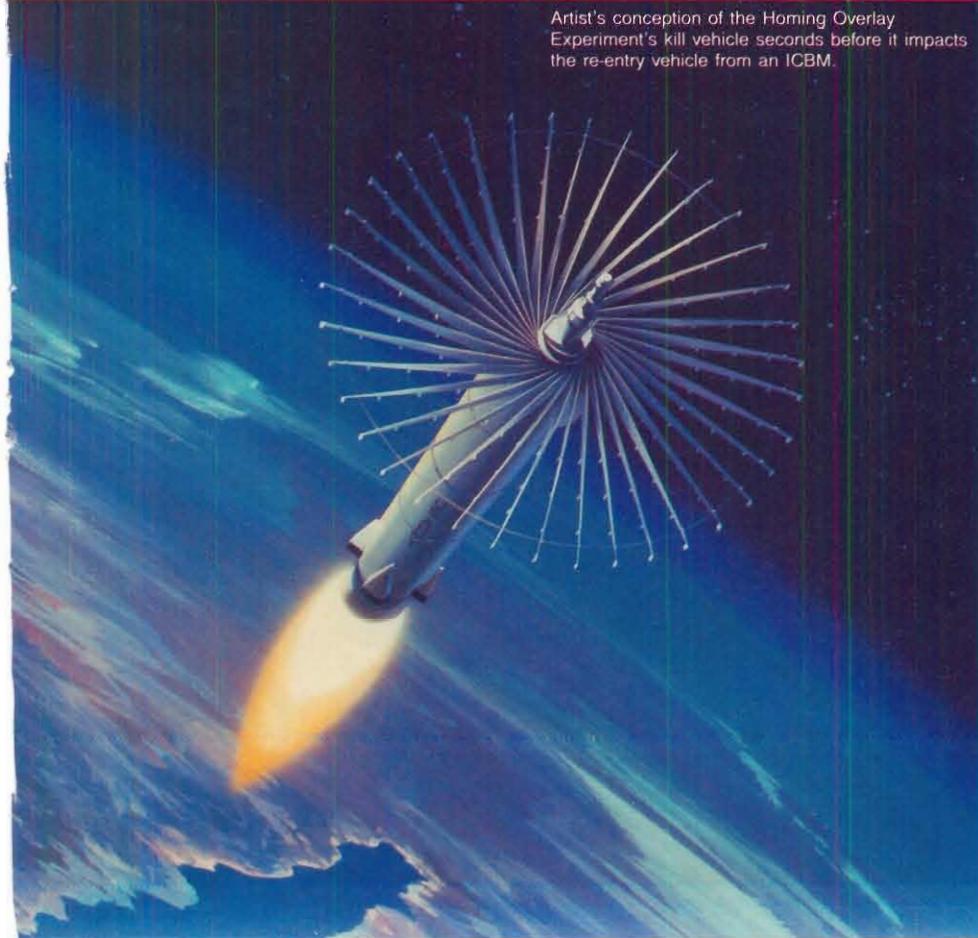


The HEDI or high endo-atmospheric defense interceptor is a kinetic kill vehicle designed for low altitude (150,000 feet maximum) ballistic missile defense and is part of the phase one deployment of SDI.



Artist's conception of a fully deployed "space shield" as envisioned in President Reagan's original plan for SDI.

Artist's conception of the Homing Overlay Experiment's kill vehicle seconds before it impacts the re-entry vehicle from an ICBM.



For example, in 1984 a spectacular experiment called the Homing Overlay Experiment, HOE, was conducted high above the Central Pacific. The experiment involved the launch of an ICBM carrying a dummy warhead from Vandenburg Air Force Base, California. Some eight minutes later a rocket containing the HOE was launched from the Kwajalein Missile Range in the Marshall Islands, some 4,000 miles away from Vandenburg.

Within seconds the sensors contained within the HOE locked onto the incoming dummy warhead and maneuvered the HOE vehicle into the warhead's path. As the two vehicles closed on each other the HOE unfurled itself into a 15-foot diameter steel net, much like the ribs on an umbrella. The two vehicles impacted each other at a speed in excess of three miles per second at an altitude of 100 miles. This was (as far as is known) the world's first successful direct impact intercept of an incoming ICBM warhead.

Yet another series of tests known as the flexible lightweight agile guided experiment, FLAGE, were conducted

SDI: Progress Versus Politics

in 1986 and 1987. These tests involved intercepting a tactical missile at very low altitudes (well within the earth's atmosphere). They were designed to test the effectiveness of sensors and guidance systems which would be used on point defense systems. Point defenses are designed to defend specific sites and installations from attack, e.g., missile silos, bomber bases, command and control facilities, etc.

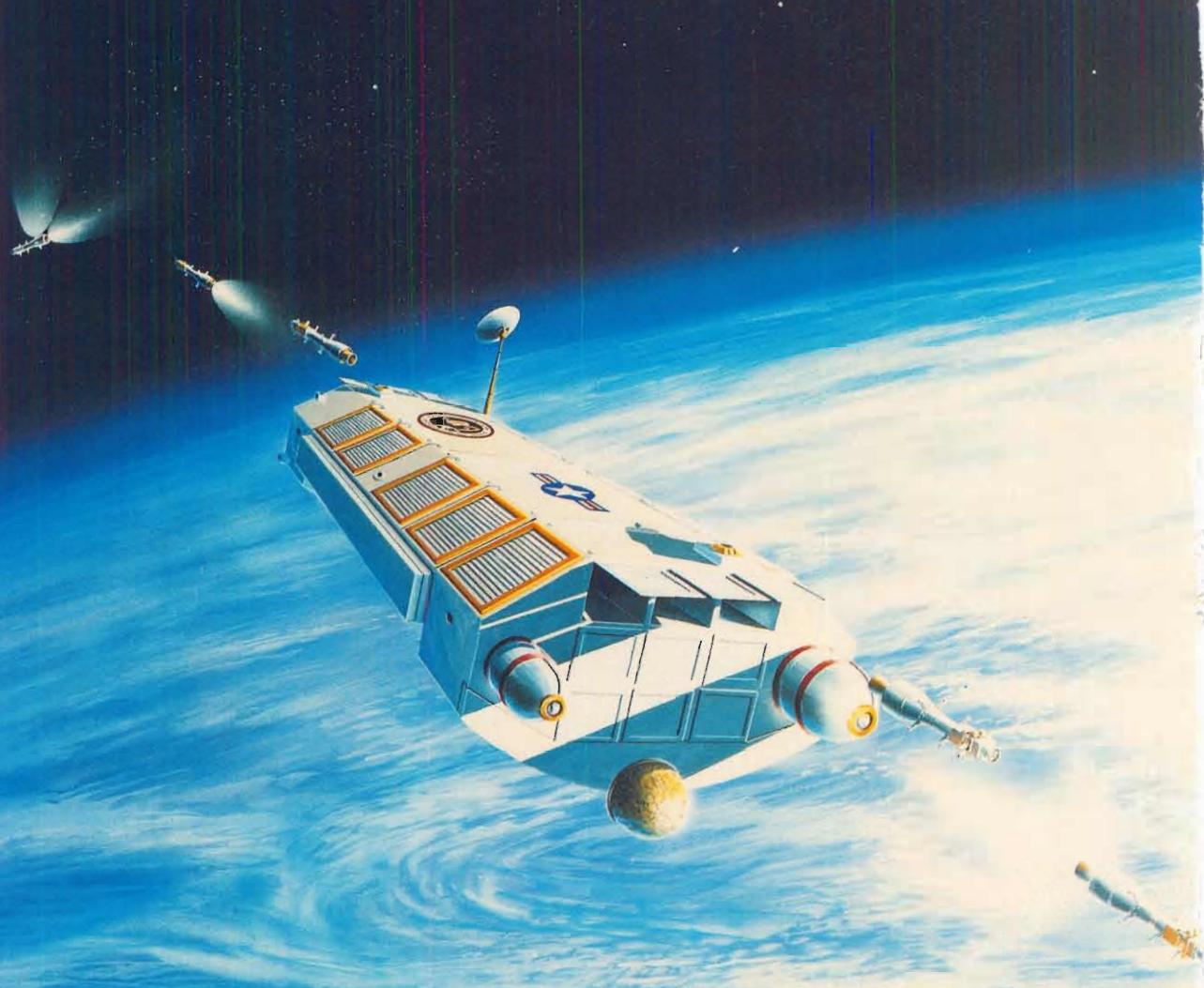
Both the FLAGE and the HOE tests have been likened in complexity to hitting a bullet with a bullet. Both series of tests were extremely successful in demonstrating the effectiveness of KEWs and the sensors needed to guide them.

Testing also continues, though at a somewhat reduced pace, due to budget constraints, of a KEW commonly known as a rail gun. This is a system which uses electromagnetic energy to acceler-

Titan 1 second stage at the moment of impact of the beam from the Mid-Infrared Advanced Chemical Laser.



Martin Marietta's version of the space-based interceptor system scheduled for late-term phase one deployment. The interceptors would be housed in orbiting platforms, each carrying 10 to 20 interceptors.



ate small projectiles to ultra-high velocities. One series of tests saw a 5-ounce projectile, which had been accelerated to a speed of some 7,000 miles per hour, penetrate completely through 1-inch thick steel plates.

Directed energy weapons research has also moved ahead. In 1985 a large chemical laser called MIRACL (Mid-Infrared Advanced Chemical Laser) was fired at an inert, second-stage, Titan 1 booster. After several seconds of irradiation by laser, the Titan second stage exploded in a shower of debris, as though it had been hit by a high explosive warhead.

Also in 1985, a ground based laser was successfully able to hit an 8-inch target mirror aboard the space shuttle Discovery orbiting some 220 miles above the earth. The significance of this test was not that a laser was able to hit so small a target, but rather that systems on the ground were able to detect and compensate for the distortion to the laser beam caused by the turbulence of the atmosphere. This ability would be necessary if, as envisioned, ground based lasers are used in conjunction with orbiting mirrors to attack enemy missiles in their earliest stages of flight.

Particle beam weapons are generally thought to be farther down the development line than laser weapons. The technology, however, is continuing to mature. Recent developments include a compact pre-accelerator unit developed at the Los Alamos National Laboratory. This unit, vital to a space based particle beam weapon, has in just a few short years been reduced from the size of a house to the size of a desk.

Other successful SDI tests include a series of experiments designed to find the most efficient sensors for locating and tracking missiles and warheads in space. The experiments were known as Delta 180 and Delta 181. Delta 181, the more ambitious of the two, took place in early 1988. It consisted of a Delta rocket carrying into orbit some 14 "test objects" (representing nuclear warheads) and a sensor platform. Various types of passive and active sensors were tested as to their ability to locate and track the test objects against the varying backgrounds found in orbit, (i.e., the earth, deep space, earth shadow, etc.). Tests were also made as to the ability to distinguish "decoys" from "warheads." The experiment was, according to SDI officials, "a very great success."

Battle management and the com-

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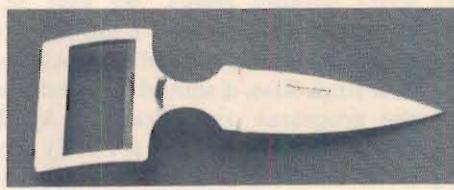
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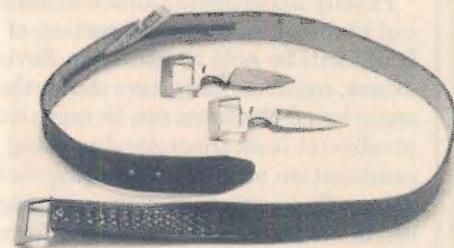
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puter programs necessary for it have become one of the key areas of debate concerning SDI. Since SDI is still in its research stage, comprehensive battle management programs have yet to be written. However, the SDIO has created a "national test bed" in Colorado where computer scientists from around the country will work to perfect the required battle management programs.

Critics often cite the estimated 10 million to 100 million lines of computer code required for SDI battle management as being impossible to write without errors. Yet past SDI experiments have used 1 million line programs which worked perfectly the first time. Also, it should be noted that the programs controlled the Apollo moon landings worked perfectly, and were estimated to contain approximately 10 million lines of programming code.

Finally, experiments aimed at assuring that any space based portion of a BMD will be able to survive a Soviet attack, continue. Tests have shown that space based platforms can be made survivable (at least theoretically) using a combination of new and existing technology. For example, stealth technology can be employed to make the platforms harder to track. The platforms could be armored to withstand impact from Soviet KEWs. Platforms could be designed to maneuver so as to make targeting them much more difficult. Decoy platforms could be deployed. Since the platforms will be designed to destroy incoming Soviet ballistic missiles, the weapons systems they would use to do this could also be used for the defense of the platforms themselves.

Deployment Plan — As has been shown, the SDI over its brief six-year history has indeed made great technological strides. Despite that fact, the SDIO has been forced, through a combination of political and budgetary pressures, to scale back its initial plans of deploying a single comprehensive BMD system.

Current plans call for splitting the SDI into two distinct phases of deployment. Phase one would see the deployment of a limited BMD aimed initially at protecting just a few vital targets within the continental U.S. Phase one is currently envisioned as occurring in

six separate and distinct steps and could be in place by the turn of the century. The technology for phase one would be based primarily on KEWs. Only in the very last step of phase one would we begin to see deployment of directed energy weapons.

Phase two of SDI deployment would place DEW systems in orbit and would be designed to destroy attacking missiles in their earliest stages of flight (from just after launch to just before warhead release). Phase two would provide the comprehensive "space shield" over the entire U.S. which President Reagan had envisioned when he launched SDI. Unfortunately, since SDI is under constant political and fiscal attack, and has consequently been forced to delay and cut back many phase two programs, it is impossible to estimate when phase two deployment could begin. There is as yet no detailed plan for phase two deployment.

The SDIO had outlined the six steps of its proposed phase one deployment as follows:

Step 1 — Deployment of 100 ground based interceptor rockets designed to protect specific targets such as ICBM silos or command and control installations. This step would comply with the anti-ballistic missile, ABM, treaty and provide some balance to the already deployed interceptor system which the Soviets have in place around Moscow.

Step 2 — The modernization of the current system of space based early warning satellites with new satellites and sensors. The new systems would provide not only warning of an attack, but would be able to track and supply targeting information to follow-on future SDI systems.

Step 3 — The enlargement of the system deployed in step 1 so as to provide protection to many specific sites around the country, including Washington, D.C. This step would add medium and high altitude interceptors to the low altitude point defense weapons deployed in step 1. This step, and those that follow, would violate the ABM treaty, and those in Congress who oppose SDI are already condemning the plan.

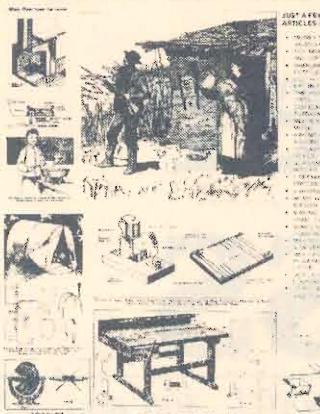
Step 4 — This would simply be a further extension of step 1 designed to expand protection to greater areas of

(Continued on page 60)

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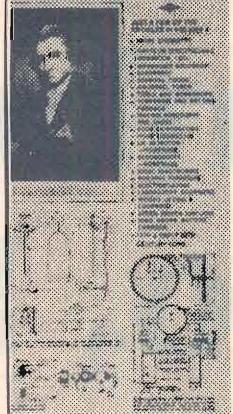
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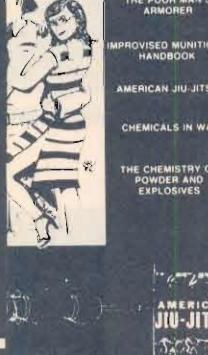
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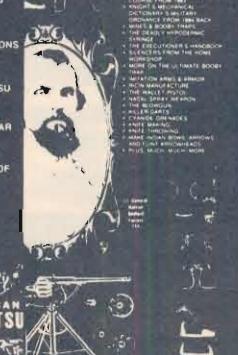
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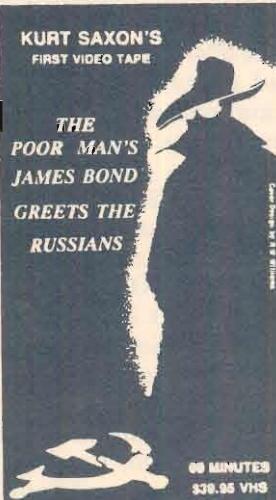
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Hirtenberger Ammo, NASS Targets

By Bud Lang

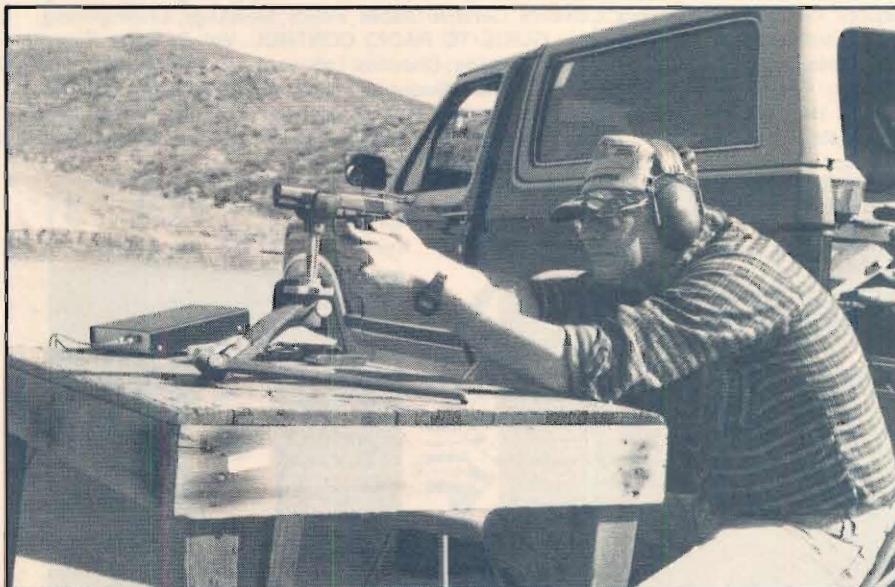
WE recently had an opportunity to evaluate some new products offered by Magnum Research (P.O. Box 32221, Dept. ASG, Minneapolis, MN 55432; 612-574-1868) and must say they fared pretty well.

The initial product is a line of Austrian ammunition manufactured by Hirtenberger, an Austrian firm, in 9mm Parabellum, .223 Remington and .308 Winchester. Another way to look at this ammo is by their other designations: 9mm NATO, 5.56mm NATO and 7.62mm NATO. Regardless of the cartridge designation you append to them, they're quite popular with police and civilians alike.

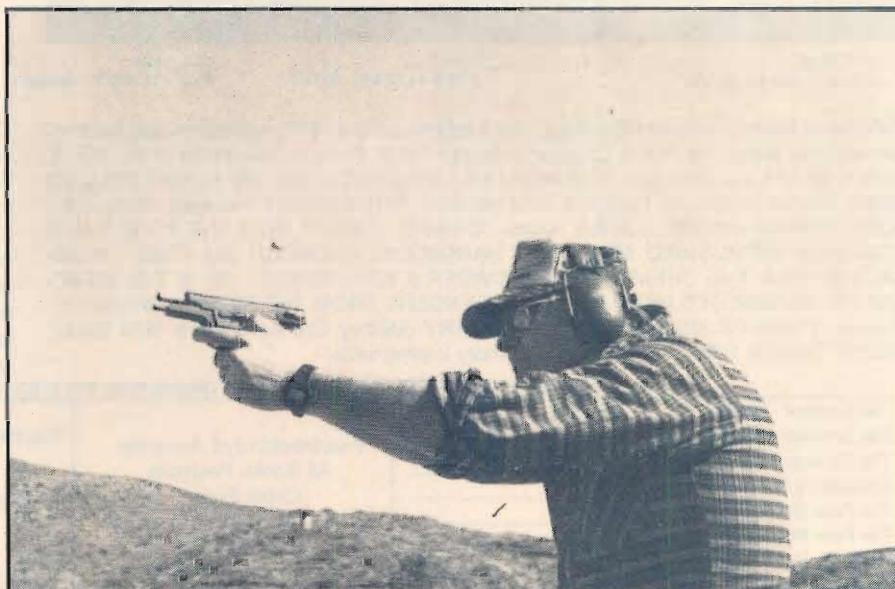
North American Shooting Systems, in British Columbia, Canada, developed a unique Target and Score Card system primarily for police sniper units. They work great for sporting arms, too. These units are also available from Magnum Research.

While the NASS targets feature a conventional bullseye with scoring rings marked 7, 8, 9, and 10, they offer two other features that are more meaningful. Superimposed over the one-inch wide scoring rings are one-inch grid lines. These make it very easy to determine exactly how far your hits are off center. One of our targets, for example, had five hits in the eight ring. Using the vertical grid lines, we could instantly tell four were between one-half inch and one and one-half inch to the right of center, while the other was two inches to the left of center. All were about two and one-half inches low, determined by their

New 9mm NATO, .308 and .223 NATO ammunition and a unique target and score card system intended for the police/law enforcement market...



Howard Reed shoots his Springfield Armory 1911A1 chambered for 9mm during chronograph testing.



Handguns were fired offhand from seven yards during accuracy phase of ammo tests. Here Reed fires his S&W M559.

position between the horizontal grid lines. These grids were used for years by Nosler Bullets on targets of their manufacturer, so they're no way new, but the NASS target offers another feature.

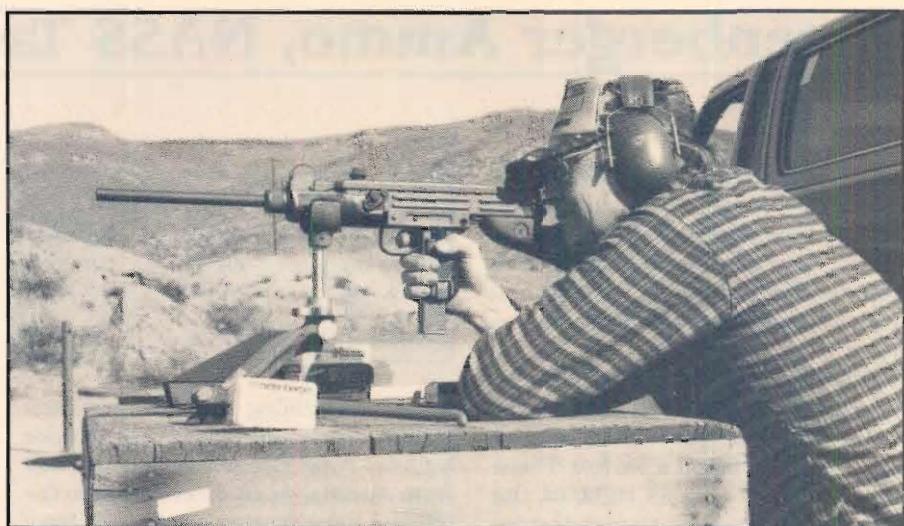
The big difference in the NASS target, however, is its large red square encompassing the 10 ring and providing an excellent aiming point. Even at 100 yards, this square is visible with metallic sights. With a scope sight, it's even more prominent. We tackled these targets with no less than six different rifles and carbines, all with metallic sights, and we got hits every time.

The Score Card offered by NASS is bi-lingual, in that one side is in French, the other side in English. It features a large target for scoring your hits as well as 10 small targets for your called shots and space for making sight corrections. These cards leave nothing to your imagination. They're designed for use with scope sighted rifles, but they should work with metallic sights, too.

With respect to the Hirtenberger ammo, Magnum Research declares that it is NOT manufactured to SAAMI specs but rather to NATO specs, therefore it is a little hotter than off-the-shelf U.S. manufactured ammunition. This can be interpreted to mean that Hirtenberger ammo will produce greater chamber pressures as well as higher velocities than what you're accustomed to.

To determine specifically how much more velocity we're talking about here, it was decided to test the 9mm ammo in two different handguns along with a variety of American production ammo. We ran the .223 and .308 ammo through three different rifles and three different carbines, all popular models. Each of these loads was compared against PMC ammo, which is made to U.S. military specs. Had we more time and a larger sampling of Hirtenberger, other brands of U.S. ammo would have been evaluated, too.

Ammo Evaluations — To assist in these tests, I called upon my good buddy Howard Reed, who not only likes to shoot, but happens to own the "right" guns. The first thing we did was set up our NASS targets, with the Oehler Model 33 Chronotach on the 25 yard line, at the Lake Elsinore Sportsmans Association range in Elsinore, California. We planned to chronograph the 9mm ammo first as well as evaluate the ammo at both 25 and seven yards. Once the handgun ammo



Reed's UZI carbine produced a five-shot $\frac{15}{16}$ -inch group from 25 yards using Hirtenberger 9mm 100-grain ammo. Round was clocked at 1487 fps average 10 feet from muzzle.



Firing an H&K 94 from 25 yards, Reed put four rounds into a $\frac{1}{16}$ -inch group, and pulled another, opening the pattern up to $\frac{2}{16}$ inches using Hirtenberger ammo, which was chronographed at 1508 fps.

was tested, we'd move over to the 100 yard rifle range and try our luck with the .223 and .308 ammo.

Hirtenberger's 9mm Parabellum ammo sports a somewhat solid bullet of truncated cone design. The flat lead tip is about $\frac{1}{8}$ -inch across, and is sufficient to reduce chances of ricochets considerably. The jacket itself is crimped onto a hard alloy core. According to Magnum Research, this 100-grain load is designed for police use and is NON-expanding. It is designed to expend greater energy in wound channels by virtue of its shape, i.e. — on soft targets, bullet becomes unstable. It reportedly will transfer up to 30 percent more energy than conventional ammo, while maintaining high penetration and reducing the risk of over penetration. According to the BATF, this ammo is not rated as armor piercing.

They also claim that on impact with hard targets, the bullet is designed to drill into the object, and will not ricochet off targets if fired at reasonably slight angles.

We shot numerous five-round tests to come up with average velocities for six different loads. Because the chronograph is out in front of the gun, the velocities were measured at 10 feet from the muzzle. Therefore all figures we report are known as instrumental velocities, not muzzle velocities, but they'll be so close no one will know the difference.

Chart A reveals the instrumental velocity figures we came up with for our 9mm ammo in addition to the Extreme Spreads between the high and low velocities of each loading. We are also presenting some of the five-shot group center-to-center measurements that are representative of those we

Hirtenberger Ammo, NASS Targets

fired. This ammo is reportedly capable of leaving the muzzle of unsilenced (carbine type) weapons at an average of 1400 fps and silenced weapons at 1100 fps. We tested it in two different carbines, and found it performed even better.

While the groups in Chart "A" were all fired from a bench rest at 25 yards, we also fired some from the seven yard line, shooting offhand slow fire. These won't necessarily be as tight as the bench rest groups, even though they're at a closer range, simply because of natural movement. But, we feel the offhand shots tell a better story because they're something the "average" guy

CHART "B" (7 YARDS)

GUN	AMMO	GROUP
S&W M559	Herten 100 Gr	2 ^{13/16} "
S&W M559	Horn 90 Gr	3 ^{15/16} "
S-A M1911A1	Win 115 Gr	3"
S-A M1911A1	Rem 115 Gr	1 ^{7/8} "

boxes proclaiming these rounds were loaded with 55-grain solid base Nosler bullets. Now Oregon is a long way from Austria, so after returning to the office I gave Nosler a call. We were informed that some time ago they sold Hirtenberger a large quantity of bullets (just as Sierra sells to Federal Cartridge Company) for loading at their

CHART "A" (25 YARDS)

GUN	AMMO	VEL	E.S.	GROUP
S-A 1911A1	Hirten 100 Gr	954 fps	107 fps	
S-A 1911A1	PMC 115 Gr	1150 fps	56 fps	
S-A 1911A1	Rem 115 Gr	1230 fps	59 fps	
S-A 1911A1	Fed 115 Gr	835 fps	149 fps	
S-A 1911A1	Win 115 Gr	823 fps	18 fps	
S&W M559	Hirten 100 Gr	811 fps	72 fps	5 ^{1/4} "
S&W M559	Rem 115 Gr	740 fps	19 fps	
S&W M559	Fed 115 Gr	715 fps	43 fps	
S&W M559	Win 115 Gr	815 fps	96 fps	
S&W M559	Horn 90 Gr	768 fps	28 fps	
UZI Carb	Hirten 100 Gr	1487 fps	49 fps	15/16"
UZI Carb	Rem 115 Gr	1395 fps	25 fps	2 1/8"
H&K 94	Hirten 100 Gr	1508 fps	62 fps	2 11/16"
H&K 94	Rem 115 Gr	1359 fps	60 fps	2 5/16"

might achieve. This data is illustrated in Chart "B."

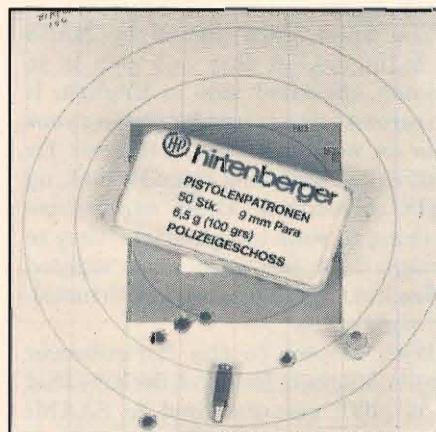
After moving to the rifle range, we broke out the .223 and .308 Hirtenberger ammo. The first thing that caught my eye was a label on the .223

own plant.

The Nosler bullet is their standard solid base hunting bullet, and it report-

edly will expand reliably between 200-300 percent while retaining between 60-70 percent of its initial mass.

We were equipped with a Colt AR-15, an FN FNC and an H&K 93 with which to launch the .223 Remington (5.56mm) on its way. For the big bore stuff, we planned to rely on a Springfield Armory M-1A, an FN FAL and an H&K 91, all chambered for the .308 Winchester (7.62mm) cartridge.



Typical of offhand groups shot from seven yards was this one from our S&W M559 9mm pistol. Hirtenberger ammo produced a 2^{13/16}-inch five-shot group. Load chronographed 954 fps 10 feet out from muzzle.

None of these guns were sighted in for the ammo we planned to test. Not only did we lack enough ammo to sight all of the guns in with the ammo on hand, then follow up with performance

(Continued on page 65)



Hirtenberger's .223 and .308 ammo proved fairly accurate at 100 yards. Our FNC and FAL rifles printed 2^{13/16}-inch and 4^{1/8}-inch five-shot groups through cold barrels. Not bad with metallic sights.

NORTH AMERICAN SHOOTING SYSTEMS®

Designed specifically for new enforcement agencies using telescope sighted rifles.

PLACE		DATE	
TIME		12	1
TEMP.		9	3
POSITION		5	
RIFLE		DISTANCE	
AMMO			
SCORE CARD "E/F"			
FOR BEST RESULTS PLEASE REFER TO INSTRUCTIONS			
SIGHT		REMARKS	
SCORE			
X 10 =			
X 9 =			
X 8 =			
X 7 =			
TOTAL			
SHOT		1 2 3 4 5	
CALL		1 2 3 4 5	
SIGHT ADJUSTMENT		L R E L R E L R E L R E	
SHOT		6 7 8 9 10	
CALL		1 2 3 4 5	
SIGHT ADJUSTMENT		L R E L R E L R E L R E	
SHOOTER'S NAME			

The NASS targets are printed on both sides of the paper. One side, here, is in English. The opposite side is in French.

SOG SPECIALTY KNIVES

Producers
of
World
Class
Blades

Superior Design

Uncompromised Precision

Practical Application

This
The
...t
represents
who has
training progra
produce th
Only a select f
the right
Trident on ti

Our flagship is based on the original Special Operations Group knife secretly developed and used in the Vietnam War by the 5th Special Forces and other elite soldiers. These individuals were specialists in reconnaissance, infiltration, and behind lines operations.

Produced in the original 800 year old samurai factory, this knife has become a classic that is unparalleled in authenticity and quality. We utilize the finest high-carbon tooling steel, gun-blued for stealth and combined with a first time resin impregnated leather handle that seals out moisture. The extremely thick blade and deep hollow grind make this one of the most appealing all purpose blade designs in the industry today. The blue steel crossguard, pommel and aircraft spanner nut are expertly fitted with overall attention to balance and feel.

Engraved with "Vietnam Special Forces Group" and the SF Crest, the SOG Bowie is also available non-engraved on special order. A high quality black leather scabbard, sharpening stone, and leather thong are all included.

Specifications:

6 1/4" blade,
10 1/4" overall

.280 thickness,
Rockwell 57-58

New Faceted Tip
for increased strength

SOG BOWIE
Unparalleled Authenticity

Meticulously constructed of steel, the Trident offers one of the finest working edges available today. Lazer cut micarta washers are utilized for the state of the art handle...a first. This enables the knife to be completely immersion resistant no matter what the environment. The Trident is cloaked in a water proofed sheath constructed of black cordura and tactical grommets.

An non-engraved sterile option is available on special order.

Faceted tip

slicing
integrate
proven b
future with
04

This 9" bowie is finest high carbon exotic to our specifications. Rockwell 55-57 and fine bevels, our faceted rei a new special.

These characteristics combine to the finest aggressive cutting surfaces and exemplary edge holding ability in the industry today. The molded Kraton® raised point handle encapsulates the tang and provides a gripping comfort that translates into maximum effectiveness with minimal effort.

Specifications:

3 3/4" x .200" blade,
8 1/4" overall

Kraton raised point
positive grips

Dual mounting
nylon scabbard

TIGERSHA

The feel is pure elegance. The feel is pur



Specifications:

6 1/2" blade,
10 1/4" overall

.280 thickness,
Rockwell 57-58

TRIDENT
Advanced Sophistication

The Trident Bowie knife combines our traditional SOG Bowie design along with 21st century technology. Masterful construction demanded the best of our most capable special unit, the Navy SEALs. The Seal Trident is the accomplishment of a man who has undergone the most rigorous training that can be devised to consummate a warrior. We are accorded the right to wear the SEAL uniform.

Specifications:

2 3/4" Blade,
6 1/2" overall

3.5 ounces
total weight

STINGRAY
Put a little SOG Power in your Pocket

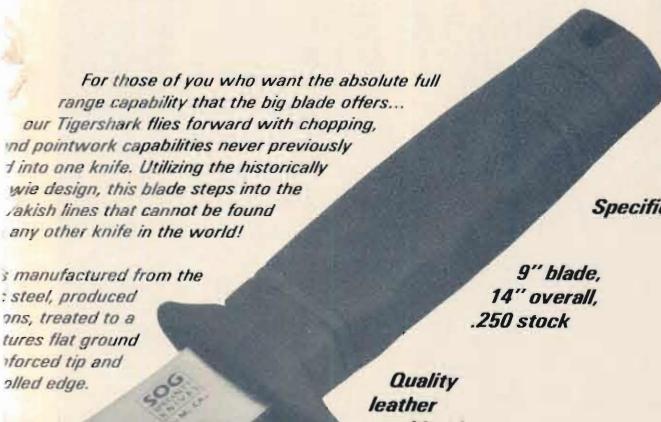


Beautifully ground from a high grade of stain-resistant steel, the SOG Stingray is the first folding bowie you can effortlessly carry on your person. Reflecting the tradition of the 1988 Overall Knife of the Year, the SOG Tomcat, this innovative pocket powerhouse possesses such award winning features as the SOG raised point Kraton® grip, our revolutionary negative-draft locking system, stainless steel bolsters, and one of the sharpest edges around.

Specifications:

9" blade,
14" overall,
.250 stock

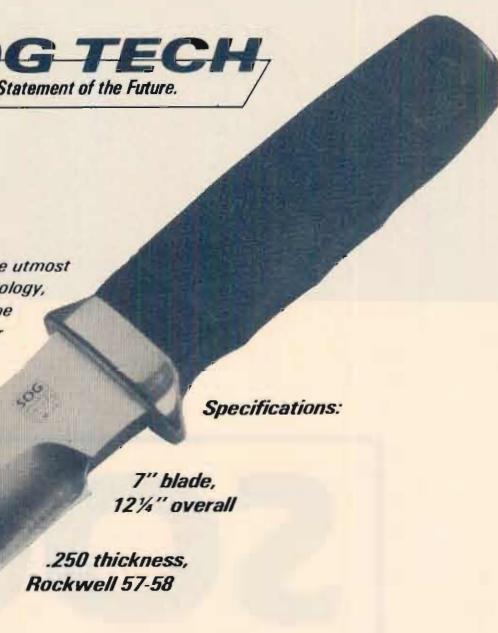
Quality
leather
scabbard



Manufactured from the finest steel, produced in America, treated to a unique flat ground profile, featuring a reinforced tip and a polished edge.

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e

SOG TECH
A Statement of the Future.

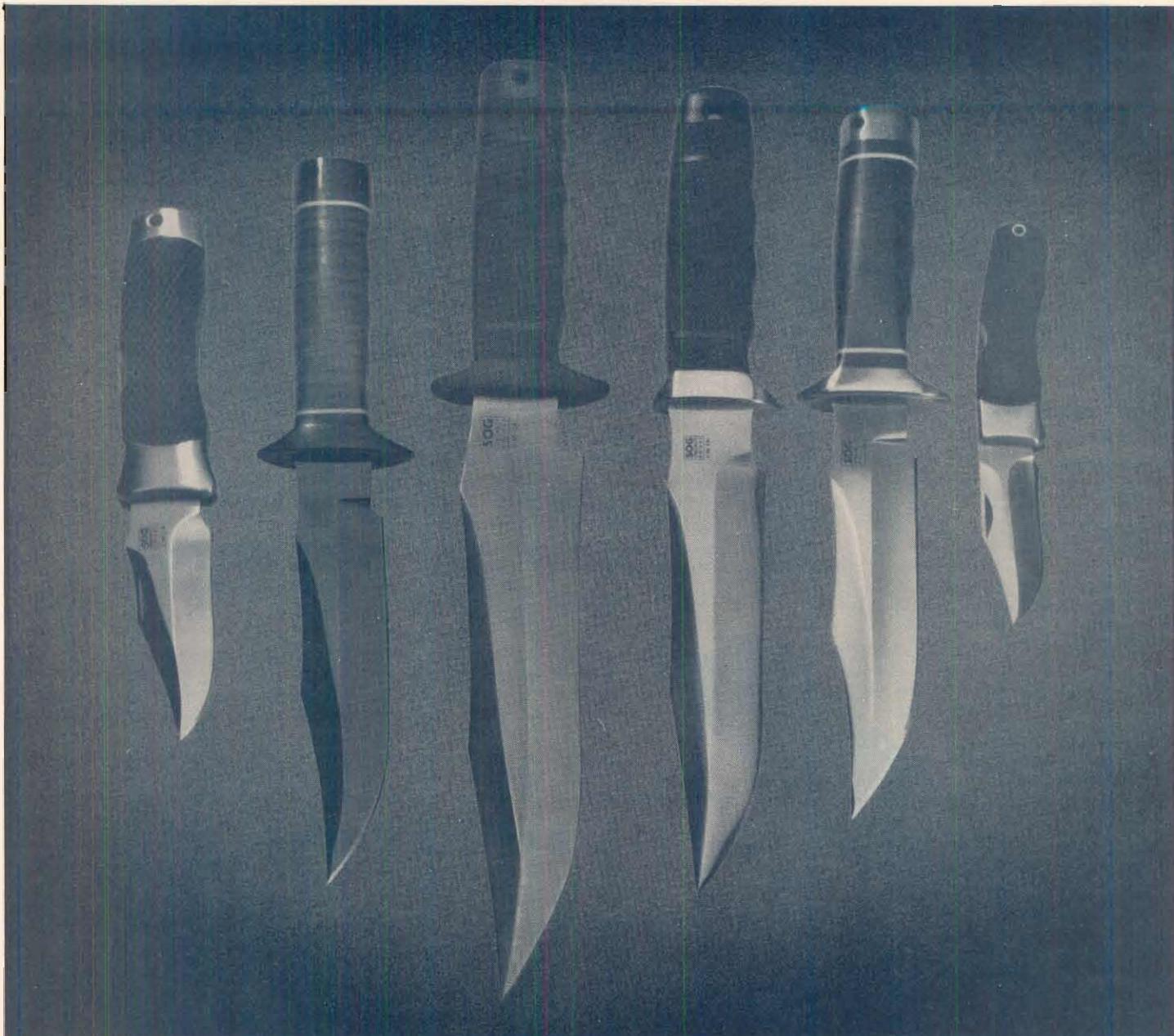


Specifications:

7" blade,
12 1/4" overall

.250 thickness,
Rockwell 57-58





SOG **SPECIALTY** **KNIVES**

**Producers
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Class
Blades**

At better dealers near you.

For information contact:

SOG Specialty Knives
P.O. Box 1006, Dept. ASG
Santa Monica, CA 90406
(213) 451-4292

Send \$1.00 for Brochure.

British Falklands Coat

*Designed for wet and
windy conditions . . .*

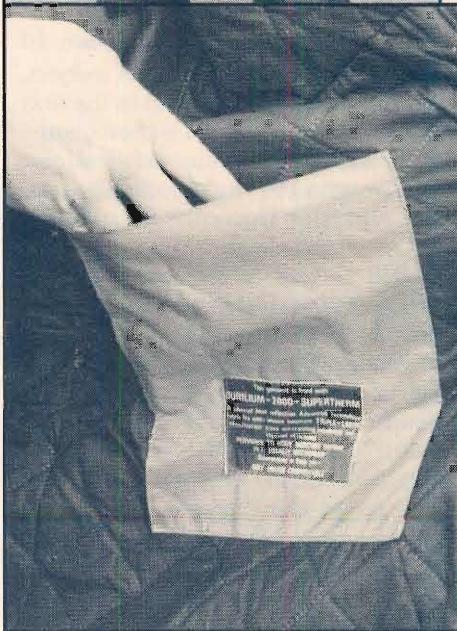


Staff Report

THIS beautiful, lightweight, royal blue-colored coat was designed for the special cold, wet and windy conditions encountered by the troops on the Falkland Islands. It's made in Scotland and is large and roomy so it can be used with other clothing or gear. It features a tightly woven outer shell of nylon that sheds water while stopping the wind and yet breathes to keep down perspiration. The garment is lined with Durilium 2000 Supertherm, a silvered heat reflective advanced technology fabric. Its non-woven laminate triple-layer construction gives outstanding insulation and thermal efficiency.

Heavy duty double zipper and velcro storm flap closure insure protection from the weather. A hood with drawstring folds down behind the large collar when not needed. The jacket has two large cargo pockets with velcro closure flaps on the outside and one large inside.

This coat is available in sizes small through extra large for \$149 postpaid from Survival Inc. (SI Equipment, Ltd.), Dept. ASG, 15600 S. Figueroa St., Gardena, CA 90248; (213) 324-8855; call toll free outside California (800) 533-7415. •



Out Of Control?:

AIDS: Quo Vadis?

The following article is reprinted with permission of the Journal of Civil Defense. The author, executive director of Doctors For Disaster Preparedness and a director of The American Civil Defense Association, is greatly concerned about the threat to the public welfare of the AIDS epidemic and feels it deserves much greater efforts to control its spread. His views may not be popular among liberals, but we believe he is entitled to express them — The Editors.

By Max Klinghoffer, M.D.

TODAY there are demands in some states that all medical personnel be required to take a certain number of hours of education on the subject of AIDS.

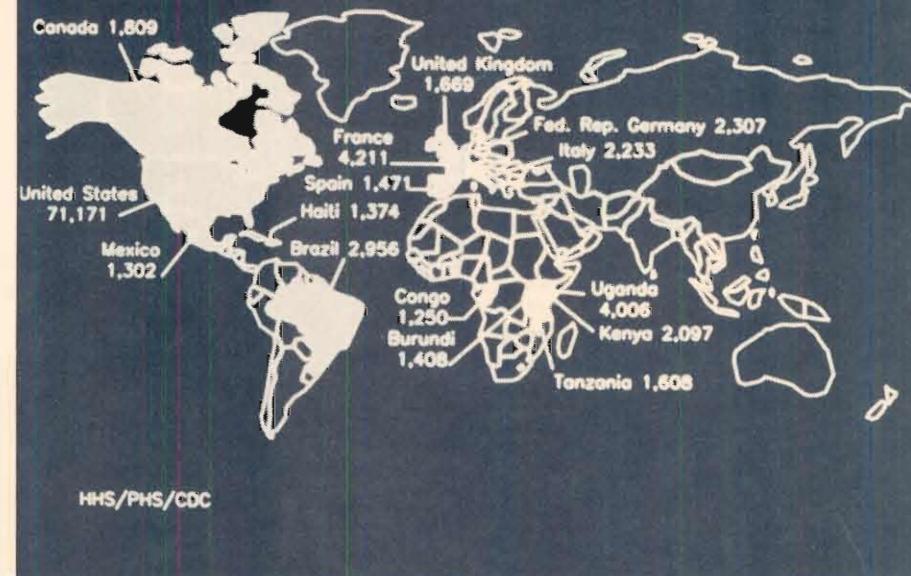
This may be a good idea, and it involves, in some instances, cosmeticians and barbers.

It is an indication that finally there is a reluctant admission that the virus may be getting out of control. But what are the plans for teaching such courses? Are we to be fed the same false reassurances as in the past? Or are we finally going to hear the admission that we still do not know; and that, until we do know, the keywords are "honest research," and "caution"?

Publications about AIDS are on the increase. But are we being lulled into complacency? Is there a cover-up about the spread of this virus? And, if so, is the concealment due to political pressures, or just to "wishful thinking."

As we examine the literature on the subject, there seems to be a relative scarcity of original material, and a plethora of the repetitious. Much of our information (or disinformation) seems to emanate from one or two sources. For example, an "authority"

AIDS CASE REPORT RECEIVED BY WHO THROUGH 8/31/88
COUNTRIES REPORTING 1,000 CASES



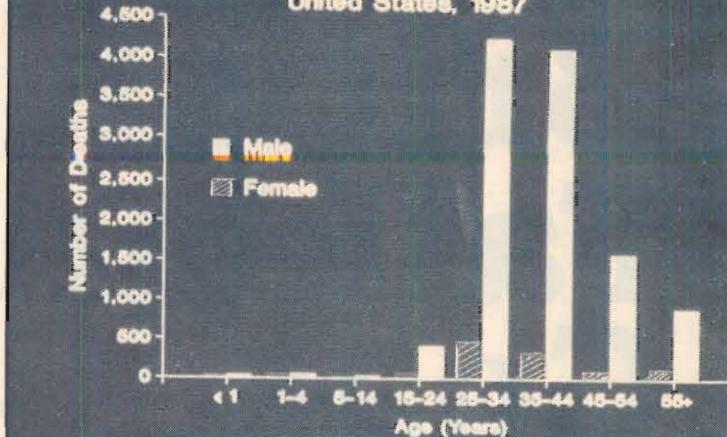
Illustrations courtesy of U.S. Centers for Disease Control

writes an article on AIDS. Then 10 more articles appear on the subject, quoting the statistics found in the first article. Each of these 10 is then quoted by 10 more, in various publications; thus, we have 100 "independent papers, each repeating the errors found in the first.

AIDS is one of the most serious problems mankind has ever faced, and it is possible it may threaten the very existence of our species. If the problem is ever to be solved, it must be approached on a scientific basis, and free of any bias. We must start by admitting, first of all, that we know very little about the disease.

1. How did AIDS originate?
2. How is it spread?
3. What are the causes for the apparent increase in incidence?

AIDS Deaths Reported to CDC,
United States, 1987



The AIDS plague promises to worsen dramatically...

4. We are told (repeatedly) that AIDS is a disease of the parenteral abuser of drugs; the homosexuals; babies born of diseased mothers; and those who have received, for medical reasons, blood products which are virus contaminated. But do we really know these are the ONLY major groups? Considering the long incubation period and the lengthy prodrome, (early manifestation) are we perhaps missing the diagnosis in other major groups?

5. Is it not true there is in fact an increase in the incidence of AIDS among individuals who do NOT fit into the so-called high risk groups?

6. How efficient are our present tests for the AIDS virus? Considering that these tests are quite new, what is the incidence of false negatives and false positives?

7. Perhaps most important of all: How can we possibly study the epidemiology of AIDS when we do not even know how many have the disease, and how many, who do not have manifestations of the disease, are harboring the virus?

dom? And, after all, how reliable is the condom? There were failures when it was used primarily to prevent pregnancy; why should it be considered a magical preventive in AIDS?

As for the "high risk groups," how accurate is that description? But if we

Remember the AIDS patients are subject to a large variety of opportunistic diseases, and surely "boils" is one of these. The individual uses a public toilet, and inevitably deposits on the toilet seat some of the purulent (pus) material from the furuncles. We are told that the AIDS virus is to be found in all the body fluids of the victim. Presumably, then, this patient also deposits some of the AIDS virus on the toilet seat. What is the risk for someone who uses that same facility a few minutes later?

Another hypothetical case. Many of the "experts" assure us there is no danger in the AIDS carrier working among others. Presumably, with the influence of the liberals, and with the laws they have sponsored, the AIDS patient may now be working as a food handler. But this food worker is susceptible to many of the opportunistic diseases which complicate the disease AIDS. One such opportunistic disease is tuberculosis, and it is apparently on the increase. What are these "experts" telling us? "You can't get AIDS from the diseased food handler" (which is a dangerous statement to make, in light of our present lack of knowledge). "All you can get is tuberculosis." How comforting!

Perhaps most important of all in the study of AIDS: can we speak realistically about the epidemiology of the disease, when, in fact, we have no idea of how many of our population have the disease, or how many may be harboring the virus?

We should have long ago performed tests for AIDS (no matter how uncer-

TRENDS IN REPORTED CASES OF AIDS: 1988 PUBLIC HEALTH SERVICE PROJECTIONS

Cumulative cases by end of 1992	365,000
Cumulative deaths by end of 1992	263,000
Cases diagnosed during 1992	80,000
Deaths during 1992	66,000
Patients requiring medical care in 1992	172,000
Cost range for 1992	\$5-13 billion

HHS/PSH/CDC

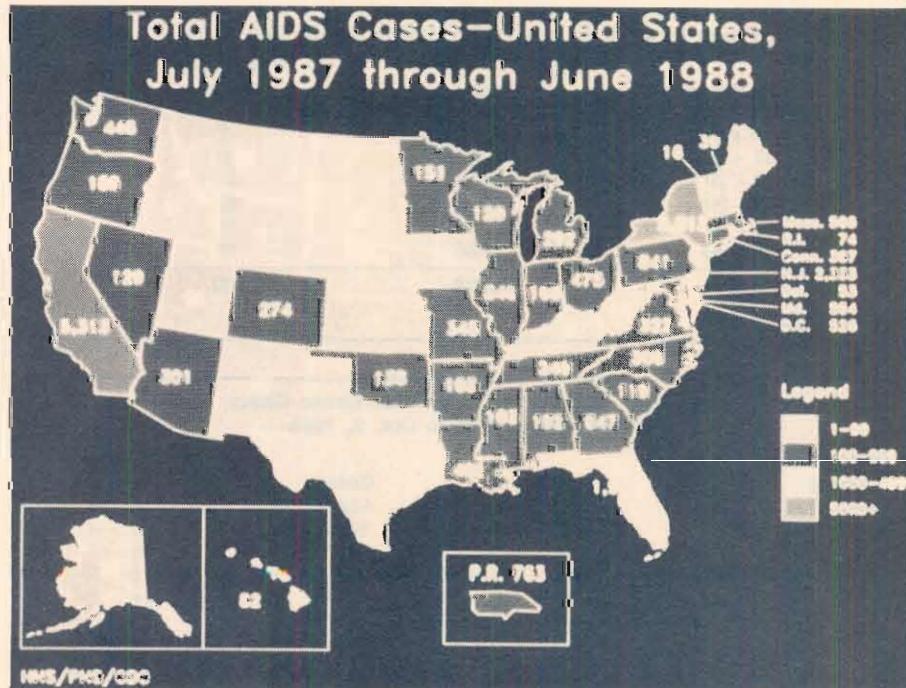
With regard to the origin of AIDS, we often hear the theory that it started with the green monkey in Africa. If so, how did the virus start in the monkey? And how did it spread to man? Is there any support for the theory that AIDS began as a result of genetic tampering? If so, by whom? And, if so, what steps must be taken to prevent more disasters of this kind?

We are constantly told that AIDS cannot be spread by "casual contact." Yet no one has really and accurately defined "casual contact." Or, as Florence Nightingale might have stated it: "Casual Contact: What it is and What it is Not." Is it handshaking? Is it being coughed upon or sneezed upon by the carrier? Is it eating food which has been prepared by an AIDS carrier who is careless about his hygiene? Is it being contaminated by the blood of a carrier who has been injured in an auto accident, and especially significant, if the ambulance attendant has an open cut? Is it the case of the emergency room nurse who is struck or bitten by a violent patient who carries the virus? Is it the surgeon who cuts his hand on a bone end while performing orthopedic surgery, only to find out later that the patient had AIDS?

If AIDS is on the increase, as it seems to be, why is it so? With all the information being disseminated regarding "safe sex," the use of condoms, avoiding the use of common hypodermics and needles, why is there still an increase? Could it be that many of the drug abusers and many of the homosexuals are not educable? When the drug abuser needs a "fix," and a sterile hypodermic apparatus is not available, will he just refrain from using the drug? When two male homosexuals meet, and are overwhelmed by the throes of passion, will they refrain because they do not have a con-

assume there are really such groups (and no others), why not take immediate and emergency measures to prevent the spread of the disease by the members of those groups? What is wrong with isolation (quarantine) of those who are spreading the disease? Not very long ago we quarantined those who had measles, and whooping cough, and mumps, and scarlet fever, and German measles. And by doing so, we did greatly reduce the magnitude of the epidemic. But recovery from those diseases was likely. Recovery from AIDS is most unlikely. We hear protests against such ideas of isolation, because of the "civil rights" of the carriers. Has anyone considered the civil rights of the healthy individual who is being exposed to the virus?

With all the reassurances being handed to the public, let us consider a hypothetical case. An AIDS patient has a general furunculosis (boils).



AIDS: Quo Vadis?

tain these tests may be) on at least one million people in the United States. Perhaps two million would be a more realistic figure. This would represent only one-half to one percent of our population. The tests should involve young and old, all ethnic groups, prisoners and free men, heterosexuals, homosexuals, and bisexuals, intravenous drug abusers (and parenteral drug abusers of all categories). When we have made such a survey of a CROSS SECTION of our population, and when we announce the results truthfully, then and only then will we have some knowledge about the extent of the disease and the virus, the major means of spread, and some of the methods of curbing AIDS.

Our laws which affect the problems of AIDS are ridiculous. The protection of the privacy of a patient is a tradition in medicine. But that privacy is (or should be) transcended by the right of the healthy individual NOT to contract AIDS. In the recent past we have followed such a rule, and it was upheld in the courts. We observed confidentiality with regard to the patient's diagnosis; but we acted within the law, and we notified the appropriate authorities if the condition of that patient posed a danger to others.

Certainly — as nearly as possible — all medical personnel must be aware of this infection (or other communica-

ble diseases) before they care for the patient. It should be remembered that sometimes the earliest manifestation of AIDS is dementia and various other forms of mental deterioration. If such a patient becomes violent, and, for example, bites an attendant, what do we know of the degree of risk (remember — the virus is found in all the body fluids)? Suppose, in an altercation with such a violent patient, the medical personnel are spattered with blood. What is the future for these medical attendants? Since the disease has such a long incubation period and a lengthy prodrome, what may these attendants expect? May they safely marry? May they have children? If such an attendant is three months pregnant, shall she be advised to have the pregnancy terminated? Or shall she wait to see if her blood tests reveal she is harboring the virus?

Has the scientific and the medical community been candid with the public? Have the politicians considered the safety of the nation versus the selfish concerns of a few? The community looks to the medical profession for integrity. If we continue to give the public reassurances about AIDS while we still know so little about the disease, are we guilty of negligence? If some of the trusting public should later find they have the virus, even though they are not in the "high risk groups," and if

they may have passed the virus along to members of their families, can we expect to be forgiven for this little oversight? Those who calmly reassure our citizens that they are at no risk from "casual contact" may have forgotten that micro-organisms undergo changes which may increase their virulence.

Eventually medical and political leadership will be forced to abandon this casual attitude about AIDS. With the increase in incidence of the disease, and with the failure to conduct a large scale survey to determine the presence of the virus in our population, such negligence borders on the criminal.

Greater effort must be exerted to study AIDS before it becomes an uncontrollable epidemic. Politics cannot be part of such an effort. While a widespread survey of our population to determine the extent of the presence of the virus is essential, this idea is opposed by segments of the homosexual groups, the drug abusers, and the liberal supporters of both. It is reasonable that the homosexual groups will frantically demand a search for a cure; but they must remember that prevention is perhaps even more important.

For many years there has existed in this country the idea that homosexuality is to be tolerated, so long as it is "between consenting adults" and provided it does not bring harm to others.

Some individuals, speaking for the homosexuals, have protested the concept of innocence or guilt in those who acquire the virus. They say that there are no guilty victims. This is utter nonsense. The baby born with AIDS contracted from its mother is surely an innocent victim. The man who becomes an AIDS victim as a result of the use of blood products to treat his hemophilia is an innocent victim, as is his wife if she contracts the disease from him. But the homosexuals and the drug abusers are NOT innocent. Nor is the bisexual. We have in our population today a mass army of "Typhoid Marys," and they are spreading disease and death. Unfortunately, some of our legislators are homosexuals, and this may delay needed legislation. ●

Reported Cases of AIDS by Age Group, United States 1981 to Oct. 3, 1988

Age Group	Cases	Percentage of Total
< 13 years	1,188	2
13 - 19	301	0
20 - 29	15,453	21
30 - 39	34,609	46
40 - 49	15,603	21
Over 49	7,655	10
Total	74,809	100

HHS/PHS/CDC

Reported Cases of AIDS by Race/Ethnic Group
United States, 1981 to Oct. 3, 1988

Race/Ethnic Group	Cases	Percentage of Total
White	43,447	58
Black	19,707	26
Hispanic	10,979	15
Asian/Pacific Islander	434	1
Amer. Ind/Alaskan Native	77	<1
Total	74,809*	100

HHS/PHS/CDC

* Includes 165 patients where race is not known

Professional Locksmithing Tools

LOCKAID

Specifically designed to pick tumbler locks. Designed over thirty years ago to aid law enforcement agencies. Consists of tension wrench, three needles and Lockaid "Gun." Prices include a copy of the book "Lock Picking Simplified." Lockaid \$59.95



PIX MODEL 13

This deluxe yet compact kit features 11 of the most commonly used tools. Comes in a slim cowhide leather case for discreet undercover operatives. As a special bonus, a 5 piece set of warded picks is included. A 16 piece set total. Also included, a copy of "Lockpicking Simplified." Receive all this at a low price of:



PIX 13 \$39.95

Lockpicking Simplified	\$6.00
Complete Guide to Lockpicking	\$9.00
Improvised Lock Picks	\$9.95
Tubular Locks	\$7.95
Lockout and forced entry	\$7.95

PIX-QUICK MODEL A

These high quality picks feature new lighter non-breakable plastic color coded handles. Picks are of .022 blue spring steel...hardened to perfection. Eight piece set comes with handy see-through case with two extra pockets and a copy of "Lockpicking Simplified."



Model A \$19.95

PIX-QUICK MODEL B

Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book.

Model B \$27.95



PIX-EZ All-In-One Pick-Set

100% American Made! As convenient to carry and use as a pocket knife!

Only 4 inches long, half inch square, weighs under five ounces, works fast and opens pin and wafer tumbler locks quickly, with very little effort. Six tempered spring steel picks, tension wrench.

\$34.95

WKS PICKS

Made of the finest blue tempered spring steel this 5 piece padlock pick-set is a must in every locksmith's tool box. This set will pick open most every warded padlock made today.



\$39.95

MONTHLY SPECIAL

Receive a combination set, includes Pix Quick Model A, Double sided Disk tumbler Picks, Sesame Decoder and a schlage Wafer.

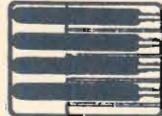
An \$87.80 Value at a low price of \$59.95.



ESP-13

This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 different tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 piece warded key set and a copy of "Lockpicking Simplified." 17 piece set total.

ESP-13 \$42.95

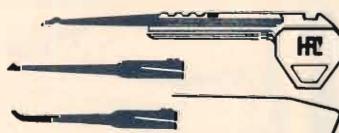


DOUBLE SIDED DISK TUMBLER PICKS

Set of 4 picks designed to be used on the most popular double-sided disc tumbler, showcase, cam and padlocks.

\$24.95

KEY RING PICK SET



This unique design is ideal when low profile is required or to keep on your keyring for emergencies. Contains a tension wrench, three picks and the "Key Pick."

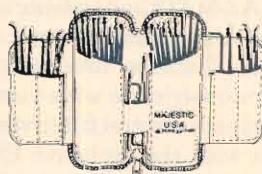
Key Ring Pick Set \$24.95



MD16

Shirt Pocket Size, Top Grain Cowhide Leather, Zippered Case, has 10 picks, Tension Wrench and Broken Key Extractor.

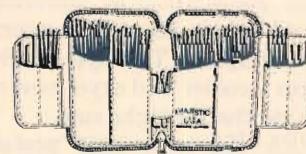
\$49.95



MD32

Hip Pocket Size, Top Grain Cowhide Leather, Zippered Case, has 32 picks, Tension Wrenches, Broken Key Extractor.

\$59.95



MD60

Top Grain Cowhide Leather, Zippered Case, has 60 picks, Tension Wrenches, Broken Key Extractor and Warded Master Keys.

\$79.95

MINI PICK TUBULAR

The most effective tubular pick on the market, unlike the larger picks with long handles or screwdriver handles. The longer the tool, the more pressure needed which causes easy breakage. The advantage of the Mini Pick is it is so short, you only use your thumb and index finger. With a little practice this tool will open a tubular lock in less than a minute. A. Your Choice: (1) Center (2) Offset left (3) Offset right; B. "Segal" 8 pin tubular; C. 5-pin tubular; D. 6-pin tubular; E. 8-Pin Ace.



\$59.95

SESAMEE DECODER

This tool was designed to decode the exact combination of a sesamee padlock without damaging the lock. Detailed instruction included.



\$17.95

SCHLAGE WAFER

The most fantastic tool you will ever use. This set consists of two base keys and pick. Complete instructions included.

\$24.95



Orders over \$100

Free Shipping

Catalog \$2.00

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Sorry, no credit card orders



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Gun Room
P.O. Box 68
Overseas \$6.00

NITRO-PAK:

RPA IIA Evacuation Suit

Staff Report

WHEN the Chernobyl nuclear accident occurred in 1986, both the governments and civilians of Europe were caught off guard. The disaster prompted several European civil defense agencies to find a suitable protective suit for their citizens should a similar event happen.

A company in Chantilly, Virginia, was selected to provide a U.S. design for radionuclide protective apparel for paramilitary units. The result is a low-cost protective garment that provides both dermal and respiratory protection without additional gas masks or air tanks.

The RPA unit is constructed of economical RADTEX, a superior laminate created for comfort and durability in a HAZ-MAT/Civil Defense environment. Unlike gas mask systems, the RPA IIA model features: total body protection, a non-restrictive wide-view hood, high efficiency electret filter/ventilation system with the exclusive EX-EVAC respiratory system. You simply breathe in normally through the nose (the suit's filter will exclude dusts, mists, radionuclide particulate at submicron levels) and exhale through a snorkel rubber mouthpiece. This system gives the wearer a cooler and dryer environment inside the air tight suit.

The RPA IIA evac suit protects against airborne contaminants such as asbestos, PCB soot, chemical/biological warfare agents, vapors and hazardous gases, but should not be used in environments with less than 19.5 percent oxygen. It has been tested and approved by both military and civilian labs as to its effectiveness. All seams are double stitched for strength and zipper enclosures are included with impermeable seals. Cuffs and wrists have elastic closures.

The RPA IIA has been available to

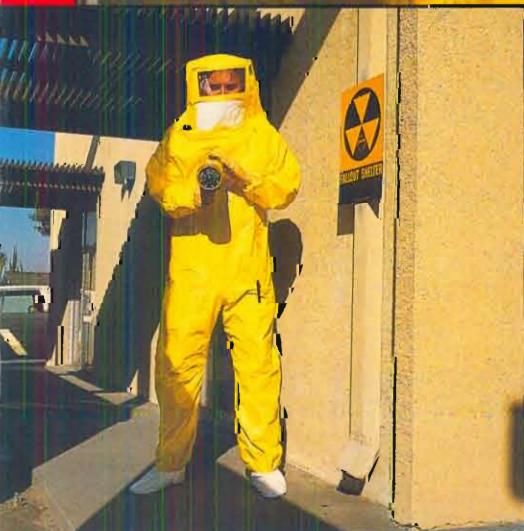
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civilian oriented multi-hazard evacuation suit...*



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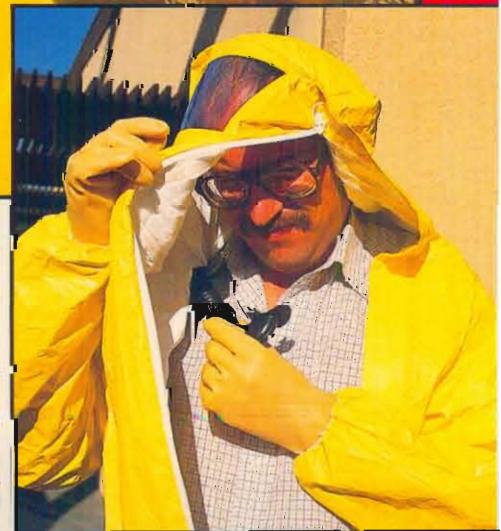


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Beeman Precision Firearms:

Beeman/Krico M650SS Sniper/Match Rifle

'No-nonsense, pure function' target rifle. . .

Staff Report

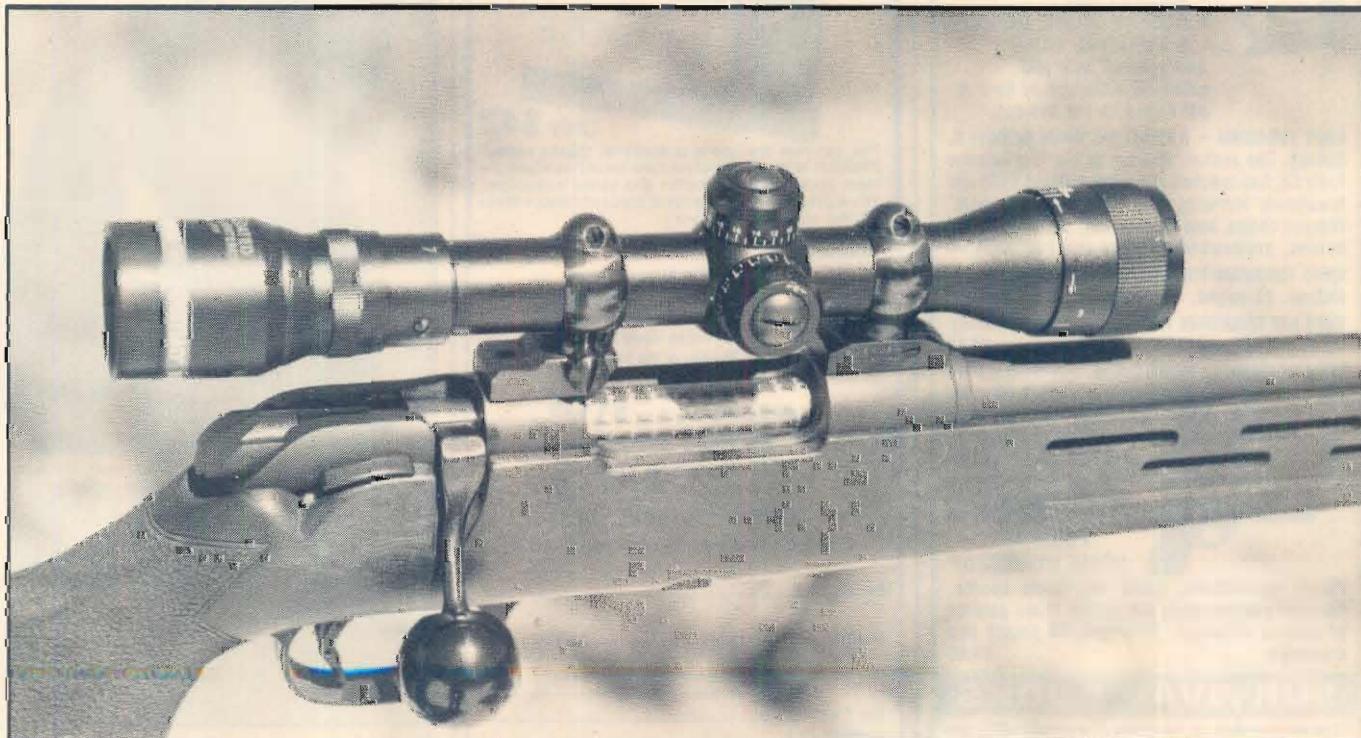
SUPER Sniper" is the name used by the people at Beeman Precision Firearms to describe their imported Model 560SS Sniper/Match rifle

in .308 Win. caliber.

Produced by a German family company (Kriegeskorte or "Krico" for short) established in the 1800s, these rifles are no longer carried in stock by Beeman Precision Firearms, U.S. distributor for the Krico rifles. But they are

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The Model 650SS, here fitted with a Beeman 66R Blue Ribbon Scope, features large bolt operating knob for easy use, even with gloves, thumb operated safety and three-round magazine.

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Krico M650SS



The Beeman/Krico Model 650SS "Super Sniper" rifle is intended for police tactical units and those shooters who desire .308 tack driving accuracy at long range in a rugged medium weight package.



The European walnut stock with dull oil rubbed finish has adjustable buttplate (rubber) and cheekpiece to accommodate any shooter.

here is \$2,363 retail without scope.

It has been fitted with a Beeman Model 66R top-of-the-line Blue Ribbon scope featuring "Speed Dials"— extra large windage and elevation dials that are especially fast and easy to use and require no tools. The scope also has a Range Focus Ring which allows the shooter to dial away parallax error and dial in perfect focus from 13 meters to infinity. The 66R permits the shooter to zoom instantly from 2 to 7X with sufficient high power for long distance shots requiring pinpoint accuracy.

The Model 650SS features a beautiful walnut stock with cutouts and movable cheek piece. The bright engine turned bolt body and polished aluminum plates at the butt are the only flourishes on this otherwise "no-nonsense," "pure function" rifle, according to Beeman literature.

The barrel and receiver are sandblasted and blued to a fine non-reflective surface. There are no iron sights since the rifle was designed to be used with a scope. The bolt has a 1 1/4-inch diameter black knob for easy handling, even with gloves. The hard European walnut stock has a dull oil rubbed finish. The muzzle has a military style muzzle brake.

The rifle weighs about 10 pounds empty but it seems light since it is balanced neatly at the carrying point for the left hand. The rifle fits almost any shooter in seconds with its adjustable comb that can be moved and locked in position with a hand set knob. The buttplate can be loosened

with a screwdriver and raised or lowered to suit needs.

The Model 650SS was made to be accurate under difficult conditions. Beeman reports that one prominent shooting authority found that it consistently shot groups of 1-inch at 100 yards. Beeman states that this weapon is ideal for police tactical units but its greatest adherents will likely be those who want big bore tack driving ac-

curacy in a rugged medium weight package.

Although we did not have time before our deadlines for this issue to shoot the Model 650SS for pinpoint accuracy, we expect to do so in an article to appear in next month's issue. Accuracy test shooting will follow initial zeroing of the scope with a bore sighting device which we will be demonstrating in the same article. •

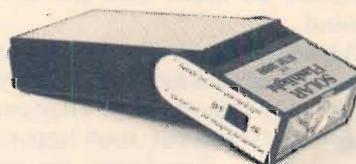
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Stock pull	13 1/4"
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Basic Skills:

Inner City Gardening

Another source of food with which to weather a crisis...

By Ragnar Benson

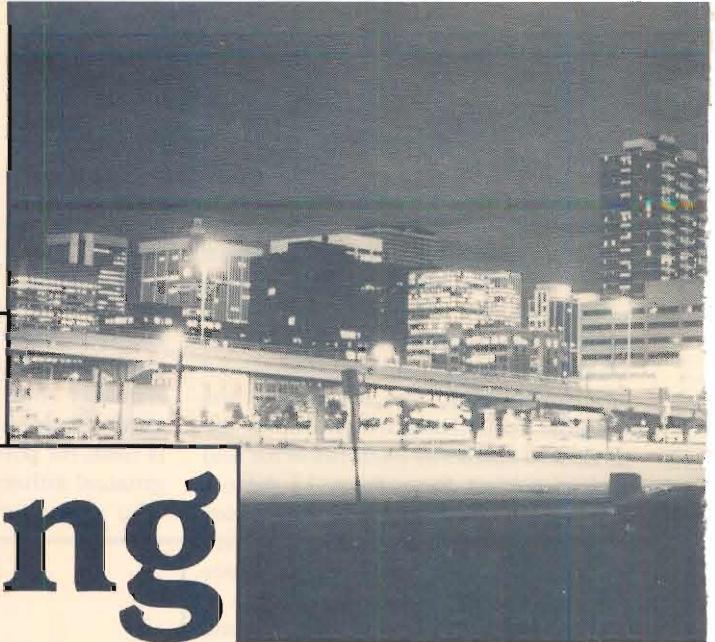
VIRTUALLY all of the survivors I have known who have made it through a collapsed economy ordeal in the inner city have mastered two basic skills. It didn't seem to matter how many guns or how much ammunition they had, or even the extent of their trading stocks of booze, light bulbs, medicine and soap. Prepared retreats were important but seemingly not vital.

What really counted were scrounging and foraging skills and, most important, the ability to produce edibles from tiny, tough-to-manage inner city garden plots. Related skills at off-season gardening were another real plus when the flag went up. Stark, bare grocery shelves caused food riots and panic among lesser peoples but survivors with a green thumb always seemed to come through.

Some of the problems of lack of soil, water, fertilizer and sunshine city gardeners must overcome are obvious. Others, exacerbated by hordes of starving people gladly willing to eat anything they can lay their hands on, are not so obvious. This last problem at a time when people will gladly kill for a meal is not apparent to survivalists who never actually put their skills to the test.

During the early 1980s I experimented at raising potatoes on the Island of Mindanao in the south Philippines. Because of the presence of contending forces of communists, militant muslims and trigger happy government troopers, the region was economically brain dead. Regular citizens who did not want to, or did not enjoy, roaming

Gardening in the inner city demands skills beyond those needed to simply make a garden grow.



ing the forests at night with the firm purpose of shooting their neighbors were just barely making it.

Peasants who put out a crop of rice or dried a few coconuts they scrounged from the jungle usually had them rudely and forcibly ripped off by one or more of the contending groups.

I never did figure out if large commercial plots of potatoes would grow well in that environment. Starving neighbors kept sneaking into my fields at night in hopes of finding a tuber or two with which to shore up their lagging caloric intake.

My clients suggested posting armed guards. I agreed but insisted that the guards restrict their activities to weighing, counting and recording the spuds that walked off the field. To some extent the ploy worked. It took the locals two weeks to figure out that we weren't going to shoot them. By then the spuds were 110 days old and about ready to harvest, anyway.

Difficulties exist but as a general rule potatoes and cabbage make ideal survival crops. Cabbage because it grows well in colder weather and can be stored using very simple procedures and potatoes because no other crop produces as much food per acre of ground.

Potato tubers are an excellent, nutritionally balanced food source. They are reasonably easy to grow. They can be stored fairly well but, most important, they produce five times the edible product as compared to any other plant or vegetable. Not corn, wheat, rice, barley or even algae or seaweed will yield up the amount of usable groceries that potatoes will.

Tuber Start — A thriving hill of pota-

toes can be started from a tiny, insignificant piece of tuber or even piece of skin otherwise far too small to have any nutritional value. On the down side, the small but vital piece of seed potato can be really troublesome to store for any extended length of time. The world over, seed potato storage is the achilles tendon of both propagation and, of course, related consumption.

The first six weeks of storage everything is fine as frog's hair, provided the tubers are kept in thin, open trays so that air can freely circulate around them and that they don't get too warm.

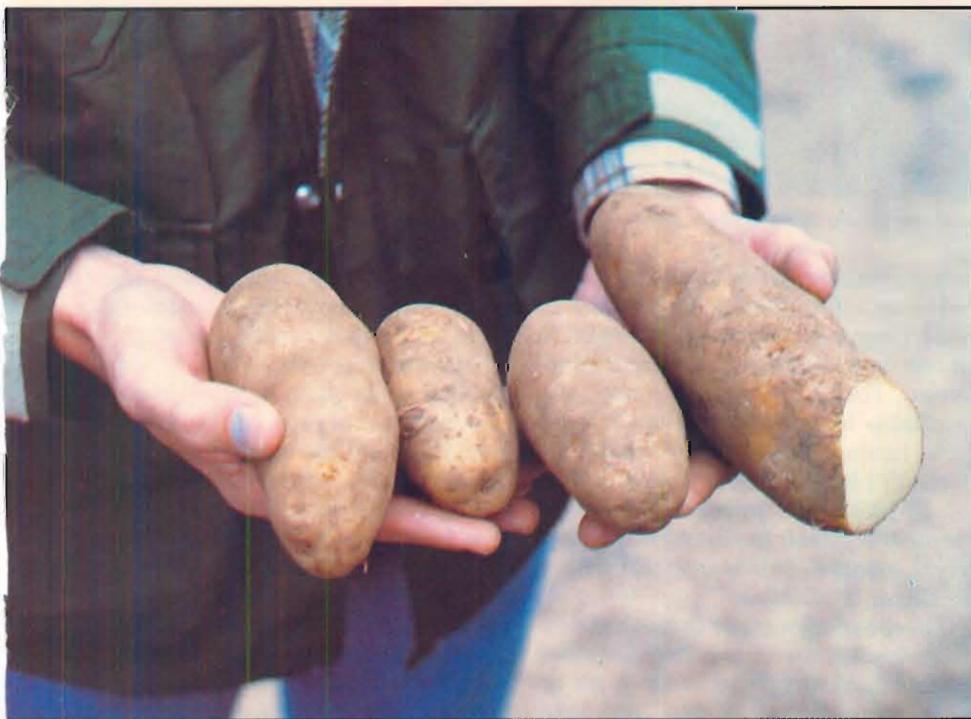
After that unless the spuds are kept at 38 to 40 degrees Fahrenheit with only diffused light reaching them they will send out white sprouts that turn green as soon as they reach light. Old fashioned root cellars dug into a hillside took advantage of the natural ambient coolness of the earth and, of course, were dark. They also allowed for an exchange of cool winter air into the cellar to act as a refrigerant during the winter.

This movement of cool air into root cellars insulated to a constant temperature is vital but often ignored or unknown to modern Americans.

City survivors should plan to store both their eating and seed potatoes in an unused cellar or perhaps behind a pile of rubble, under some kind of roof. No matter where they are stored, conditions should be cool and dark, yet protected from freezing and airy. It is also necessary that the place of storage be inconspicuous. Always store in open trays or in hanging bags of porous, open material. Very few vegetables have the high rate of respiration that is commonly found in spuds. Tightly packed they quickly heat and destroy



The author experimented with raising potatoes in the Philippines.



Because of their wide ranging nutritional value and their high yields relative to other crops, potatoes make ideal garden vegetables for inner city plots.

themselves.

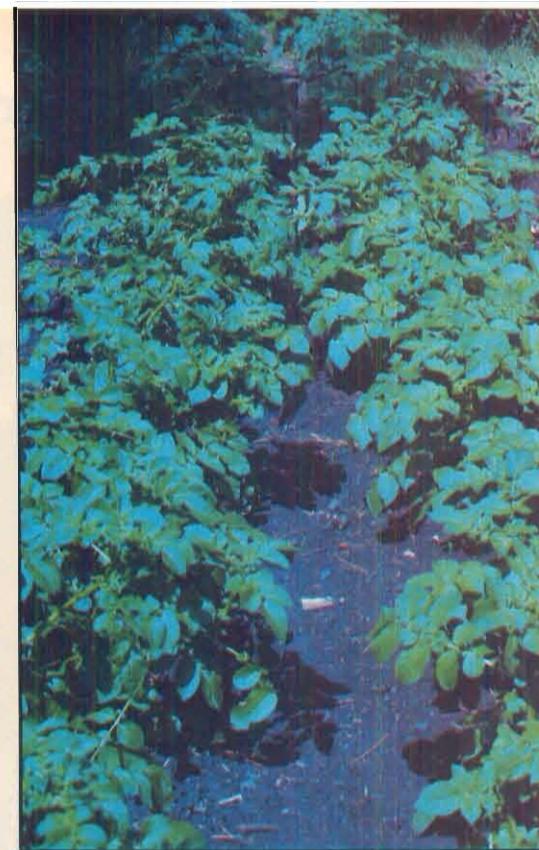
Darkness in the storage is a plus if it can be arranged. I usually store my spuds in open wooden slatted boxes in the garage. The garage is dark but not cave-like. In the Denver area they keep nicely till mid February. I am careful to eat away any tubers that show signs of starting to sprout or on which the edges have frozen.

High humidity and moisture within reasonable limits in the storage area will keep the spuds fresher and more appetizing. Even good storing varie-

ties have a 78 percent water content. Some potatoes such as Red Pontiacs are 89 percent water. Dehydration can produce a thin, wrinkled product, unappetizing but still nutritious.

All healthy potatoes will sprout profusely by the end of six months. Commercial potatoes are treated with a material called "sprout nip" and will, as a result, store for longer periods of time. Wise survivors should always plan to eat their potatoes as they sprout.

Selecting appropriate survival varie-



Even planted in straight lines and carefully weeded, growing potatoes look weedy and wild to the average passerby.

ties is critical. Red Pontiac potatoes, for instance, store very poorly under stressful conditions. Russet Burbanks store OK. The really excellent variety of potato for the survivor is the Nooksack. They will keep like so many stones for months on end. However, Nooksacks are so dormant they are tough to sprout in one's garden in early spring.

As a survival measure, a few small but healthy sprouting tubers can be planted in the off season for seed in large plant pots, flower boxes or even in an indoor sandbox in which soil has been placed. Figure at least two cubic feet of soil per hill in a closed container. Rubberized waste baskets are ideal for this sort of project.

The soil in the pots is best if it is composed of 60 percent compost and about 40 percent fairly clear sand. Sand or even screened building debris is relatively easy to scrounge in the city for survivors there. Acquiring compost is mostly a matter of being alert to scrounging opportunities.

These off season boxes of spuds should be kept in the warmed, fairly well lit shelter area. At about 70 to 90 days the growing tubers will have formed and bulked. At 100 days the plant will start to die — depending, of course, on the variety being raised.

The upside to this scheme is that survivors can eat what few tubers size

Inner City Gardening



During times of stress and disruption, alert survivors must use growing space in parks, along highways and at times on vacant lots.



Peasants in China take advantage of every inch of available growing space. This photo taken before private plots were allowed shows a ditch bank covered with squash being raised by local residents.

up in the pots and use the remainder when the regular summer growing season rolls around.

Fertilizer — Potatoes are my first choice for a survival garden. But other than the large yield, semi-storability and nutritional value they are a regular pain in the ass. They easily catch a variety of bacterial virus and fungus diseases similar to humans. Like people, they require a fair amount of water and they require proper fertilizer (vitamins).

In a survival context, phosphate will be the most limited and scarce ele-

ment. Potatoes must have a source of water-soluble phosphate on which to feed. Compost can produce nitrogen or it can be produced by growing legume crops. Potash is usually naturally available but there is no way I know of to produce "organic" phosphate. As a result I keep a couple of plastic bags of 18-46-0 (18% nitrogen-46% phosphate-0% potash fertilizer) in my survival supplies. This is the most potent fertilizer available.

There are a few other characteristics that should especially endear potatoes to city survivors. Whether in a pot or in a small plot of ground they take very little space. They can be raised in fairly cool — even off-season — environments if one has the water.

With the municipal system in all probability shut down, city survivors are going to have to make provision to catch and store water a long time before irrigating with a gallon per plant per week becomes an issue. City gardeners in Thailand and Beirut use plastic sheets to catch water and funnel it into large earthen crocks.

Weeds do not impact potatoes to the extent they hurt most above-the-ground vegetables. Peas and beans, for instance, are great short season veget-



Garden plants must be sown at random and not kept so free of weeds that they stand out if you don't want them readily noticed.

ables that produce relatively large amounts of food per unit of area. However, beans and peas are quickly stunted by weeds. In addition, these vegetables develop above the ground in plain sight of every starving passerby.

City survivors who have relied on gardening as part of their survival plan report that they are far more successful with underground crops than anything else. Many of these crops tolerate some weeds among the plants that additionally tend to hide them.

Other than potatoes, these crops include red beets, carrots and perhaps turnips. Recommended above-the-ground vegetables might include cabbage, whole pod peas — suggested because they are extremely short seasonal — and some gourds and squash that like zucchini produce prodigious amounts of edibles hidden beneath leafy vines.

As survival vegetables, carrots have some drawbacks. In these times carrots tend to generally be hybrids that revert back to wild varieties if left to go to seed. Carrot seed stores poorly, losing about 50 percent of its vigor per 12 month period. In effect this means that only 12 seeds out of 100 will sprout. After three years of storage, survivors who will count on carrots for food must store large quantities of seed and rotate the old out on a regular

basis.

On the other hand, some older open pollinating varieties of carrots are available if you ask your seed man. Carrots are raised easily on very limited strips of soil in median strips on parkways or in parks. They hide well among the weeds and they can be stored in the ground till needed in many places in the U.S.

I spray the 40-day-old standing crop of carrots — weeds and all — with a fine mist of fuel oil. Fuel oil works as well as any herbicide, costs a whole lot less in a survival situation and, of course, would be available when other materials are not.

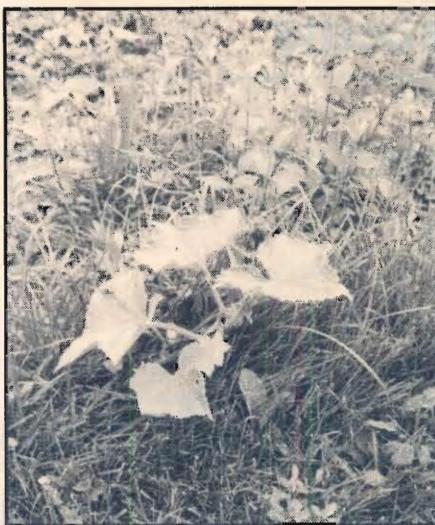
The trick is to spray only a narrow band right over the carrots. Killing the weeds on a larger radius around the crop will flag its location to every passerby.

It also helps mightily to plant these or any seed at random rather than in rows. Nature abhors straight lines, a far ranging scrounger will soon discover. Squash and gourds are especially good at growing at random but can not usually be grown in cool, off-season environments.

In all cases the city survivor must take advantage of every piece of soil available. Past experience suggests that there never will be a great many choices of locations. In many instances the survivor might have to walk long distances. This is OK until one must start carrying water and/or the neighbors notice a pattern and discover the garden.

In China I have seen gardens built on tile roofs and in cemented court-yards where the people hauled the soil in a basket, one at a time from rural areas at the city's edge.

The Chinese also survive by raising crops on fences, hanging off roofs and in roadside ditches wherever there is even the tiniest bit of soil.



Squash and gourds grow unobtrusively among rubble and for this reason make good survival vegetables in inner city plots.

As with everything else the clever get along nicely while the not-so-clever might find they have to carry buckets of water, soil, or walk several miles per day to places they can garden.

Red beet seed stores a bit better than carrot seed but is a lot more bulky. Unlike carrots, beets usually are not hybrids. As a general rule a few plants can be left to mature into seed for the following year's crop. On the other hand, seed crop beets must have around 150 to 180 days of frost free weather in which to set seed. In many places in the U.S. this is not a problem.

Beets sewn even fairly thickly but at random through a patch of weeds will not usually attract attention.

Beet stems and leaves are excellent eating. Keeping the plant trimmed back a bit will not hurt the crop once it is 45 days old and will provide an additional source of nutrition.

Red beets fall somewhere between carrots and potatoes for storability. Unlike carrots, which should be left in the ground, beets should be dug and stored in well aired racks.

Fallout On Vegetables — In a nuclear survival situation gardeners must be very cautious that they do not carry hot fallout back to their retreat on the vegetables. Nuclear elements are not water soluble and thus will not be taken up internally by plants. However, tuber and root crops grow right at the surface where hot fallout could be deposited that could cling to the crop. Wash the roots thoroughly, check them with a dosimeter or survey meter to be double sure that they are all right.

I visited a garden in northern Germany one kilometer from the Danish

border after Chernobyl. The vegetables were fine but the top $\frac{1}{20}$ of an inch of soil was, for a few weeks during the critical growing period, fairly hot. Fortunately the survivor owned a survey meter as part of his survival gear.

The fact that he had a survey meter and knew how to use it prevented concern on his part and tended to sooth the angst of the neighbors. By the time the harvest was ready the radiation levels had dropped considerably. After washing, residual levels were very low to almost non-detectable.

Survivors in Finland have augmented their food supplies by raising very short season cold weather crops in window boxes. These crops include peas, lettuce, radishes and even tomatoes.

Any crop raised indoors or in a window box can be assisted mightily by watering with hot water.

Soils heavy in organic compounds similar to those survivors will build from compost, hauled in soil and crushed rubble will hold the heat from the water. Vegetables so watered will sprout and grow much more rapidly. Gardeners in Iceland make extensive use of geothermally heated water to warm their garden plots and green houses. They have incredible success in spite of the often dismal lack of available sunlight.

I am not personally enamored with the lettuce and radish part of this business. Lettuce is not particularly significant as a food for survivalists and radishes are, in my estimation, negatively significant to inedible.

As previously mentioned, fertilizer for a garden is much more of a problem than city people without one or any background would ever suppose. Without the proper soil nutrients, one's producing ability is greatly diminished. In Somalia the natives try raising squash in the cities. Whenever so much as a teaspoon of a nitrogen phosphate fertilizer is added, the yield goes up as much as fivefold.

Successfull gardening in the inner city is a function of the energy and resourcefulness of the gardener. If seeds and a bit of fertilizer are stored against the day of need, and if tools are available to work the ground that the survivor is clever enough to discover or produce, then all that is left is hard work and water.

With a bit of luck and subterfuge the edibles won't be discovered. The survivor will find himself with another source of food with which to weather the crisis. ●



Peas are a very fast growing crop, producing large quantities of food from open pollinating seeds. However, they compete poorly with weeds, store poorly and are very obvious when growing.

Solar Power Systems

(Continued from page 9)

PHOTOS COURTESY OF PHOTOCOMM, INC.



Areas not served by grid electricity can do well with solar power systems.

12 volt system but larger systems should be wired as 24 volts. A 24 volt system will be more efficient with appliances that use larger amounts of power. To run AC appliances with a DC solar power system you will need an inverter. An inverter takes DC power from a battery bank and changes it into AC (regular household) power. With enough solar modules and storage batteries, an inverter will allow you

to run AC appliances like vacuum cleaners and power tools, well pumps and washing machines.

The main difference between wiring a solar powered home and a grid-powered home is that solar homes require larger wire to carry the 12-volt DC current. Special outlets, switches and other electrical wiring equipment are available from recreational vehicle suppliers. Polarity is critical with

With an abundance of sunshine, desert homes can produce lots of power with roof mounted photovoltaic modules.

a direct current system. Many people use cigarette-type outlets and plugs to ensure proper polarity and avoid accidents. This also helps visitors avoid confusion and mistakes when plugging in an appliance.

Additional energy sources — One way to reduce the number of solar panels and storage batteries you'll need is to consider the use of a gas-powered generator. While the generator does the big jobs like running washing machines and pumping your water, the excess electricity can be used to charge your battery bank. This stored power can then be used at any time, and it will be totally silent. If your property has a small stream, a hydrocharger can be added to your system. A hydrocharger can make electricity from falls of water as little as three feet and with flows of about 12 gallons a minute. A hydrocharger can equal the power output of five to 10 solar electric modules.

Work closely with your local solar power dealer to estimate your home's power needs. The dealer can suggest the

(Continued on page 61)

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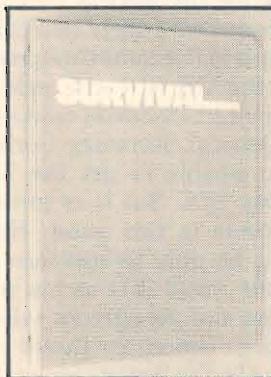
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SDI: Progress Versus Politics

(Continued from page 34)

the U.S., probably including all major U.S. centers of population.

Step 5 — At this stage the U.S. would begin deploying space based orbiting interceptors. The deployment of these systems would extend the range at which the U.S. could attack incoming missiles and warheads. In BMD the earlier you can attack an incoming missile the better. If for instance a missile can be attacked and destroyed before it releases its warheads, it is far more efficient than trying to track, attack and destroy each warhead individually.

Step 6 — This step could actually be considered the first step of phase two. It is in this step that the U.S. would begin deploying DEWs. Most likely these would be ground based lasers designed to be used in conjunction with orbiting mirrors which would direct the laser beam at attacking ICBMs in their earliest stages of flight.

Phase One Weapons — Research and design work are well underway for the KEW systems planned for phase one. The initial deployment of 100 interceptors during step one of phase one is likely to revolve around a system known as the high endo-atmospheric defense interceptor, HEDI, being built by McDonnell-Douglas.

The HEDI kill vehicle will be designed to intercept incoming warheads out to a maximum altitude of 150,000 feet (approx. 30 miles). The vehicle will home in on the heat generated by an incoming warhead as it re-enters the earth's atmosphere. Guided by onboard sensors the HEDI kill vehicle will destroy its target by a combination explosive-fragmentation effect. HEDI is basically an advanced non-nuclear version of the Spartan-Sprint interceptor systems which were the backbone of the ill-fated U.S. ABM system of the early 1970s. While 100 HEDIs are scheduled for step 1 deployment, a fully deployed phase one SDI system might see as many as 3,000 HEDIs deployed across the U.S. HEDI is scheduled for its first flight test late this year or early in 1990.

HEDI is designed to destroy low altitude targets. For step 3 of phase one a different system, designed for medium and high altitude targets is being designed. Known as ERIS, exo-atmospheric re-entry vehicle interception sys-

tem, this system is being designed by Lockheed and is quite far along in its development. The HOE experiment mentioned earlier was, in effect, a validation test for the ERIS interceptor.

Unlike HEDI, ERIS will carry no explosive charge, and will depend solely on direct impact for the destruction of its target. ERIS will engage incoming warheads out to an altitude of up to 500 miles. Also unlike the HEDI system, ERIS will be mobile when mounted on special tractor trailer launchers.

As yet the SDIO has not released figures on the number of ERIS interceptors which might be required for a complete phase one deployment. One Washington D.C. based think tank has speculated that up to 10,000 ERIS interceptors could be deployed by the end of phase one. Current plans call for the first launch of an ERIS prototype in late 1990 or early 1991.

Step 5 of the SDI phase one deployment plan will require the stationing of space based interceptors in earth orbit. These interceptors will be contained in orbiting platforms which will each house between 10 and 20 individual interceptors.

Initial plans by the SDIO called for deploying as many as 300 of these orbiting platforms, but this number has recently been cut in half so as to reduce costs. To compensate, the SDIO plans to increase the number of HEDI and ERIS interceptors.

Matching \$150 million contracts have been awarded to both Martin Marietta and Rockwell International for the development of a prototype space based interceptor and the platform which would house it. Rockwell is scheduled to conduct a non-orbital flight test of its version of a space based interceptor in late 1989.

SDI's Largest Obstacle — Whether the SDI lives or dies will be based on political considerations. It is a program caught between two competing philosophies of how best to defend this nation. Whether to rely on our own resources, science, and technology, or to place our faith in diplomatic negotiations and arms control treaties.

With the end of the Reagan presidency, SDI lost its most eloquent spokesman. President Bush made clear throughout his campaign that he supported

SDI. Yet it is clear that President Bush views SDI in a somewhat more pragmatic sense than did President Reagan. Indeed the appointment of retired general Brent Scowcroft, who sees SDI as technically infeasible, as national security advisor, seems to signal a possible shift in emphasis away from SDI. Facing a Congress in which both houses are controlled by Democrats, President Bush may be forced to accept a much reduced version of President Reagan's vision of a space shield.

One well known and influential Democrat, Sen. Sam Nunn, is already on the record as being in favor of shifting SDI from a space shield concept to one of a much more limited "accidental launch protection system," ALPS. Such a system would be intended to defend against a limited attack launched by a renegade state, or an accidental launch of one or two Soviet missiles.

Ironically, as SDI achieves one technical success after another the voices raised against it by the anti-defense lobby, or as Jeane Kirkpatrick once described them, the "blame America first crowd," can be expected to become ever more strident in their opposition. Left-wing groups such as the Union of Concerned Scientists and Physicians for Social Responsibility have undertaken a campaign to persuade U.S. scientists, technicians, and researchers to pledge that they will not participate in any SDI research efforts.

Meanwhile the Soviets continue to move forward with their own SDI program, while at the same time proclaiming that the U.S. SDI will undermine the improving U.S.-Soviet relationship. So far, General Secretary Gorbachev has been unable to get the U.S. to trade away SDI. But it is certain he will continue in this quest. He will, no doubt, be able to convince many around the world that as his policies of glasnost and perestroika take hold in the Soviet Union, the threat to freedom posed by the Soviet empire diminishes. Thus the only impediment to peace and arms control will be the U.S. insistence on continuing the SDI. Unfortunately if history is any guide, many in the Western alliance and here at home will eagerly embrace this reasoning. ●

Solar Power Systems

(Continued from page 58)

best equipment to meet that need, and provide installation tips and requirements. Photocomm, Inc., has a 50 page full color catalog (\$5) that is loaded with information on PV solar systems and other energy alternatives including backup gas powered generators and hydroelectric systems. See box at end of article for their address.

Enough solar energy falls on the United States every day to meet the power needs of the nation for 18 months. Ten years ago PV cells were considered too expensive and too inefficient to be used for home power production. Today, prices are heading down and technological breakthroughs are happening at a quickened pace.

Last August scientists at the Sandia National Laboratory located in Albuquerque, N.M., announced another breakthrough in solar power research. They had built a solar cell that is 31 percent efficient (PVs today are about 20 percent efficient). That's an increase of about 50 percent. By stacking super-thin gallium arsenide cells on top of silicon solar cells they are able to harness more of the sun's energy. Because different layers in the multi-junction cell each absorb a different wavelength of light, the entire unit harnesses the energy in a broader segment of the solar spectrum. The Sandia researchers will try to boost the efficiency of the unit still more, closer to its expected limit of about 40 percent. Dan Arvizu, head of PV research at Sandia predicts, "the technology is moving rapidly enough that photovoltaics will make a serious contribution to the energy needs of the 1990s." •

For additional information on solar power systems contact:

Photocomm, Inc.
Catalog Division
P.O. Box 649, Dept. ASG
North San Juan, CA 95960
(800) 544-6466

Books on solar power:

Suncell, Energy, Economy & Photovoltaics, by Christopher C. Swan
Published by Sierra Club Books
730 Polk Street,
San Francisco, CA 94108

The Solar Electric Home, a photovoltaics how-to handbook, by Joel Davidson and Richard Kump,
Aatuc Publications,
P.O. Box 7118,
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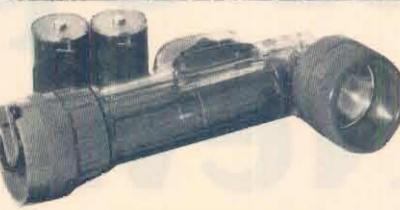
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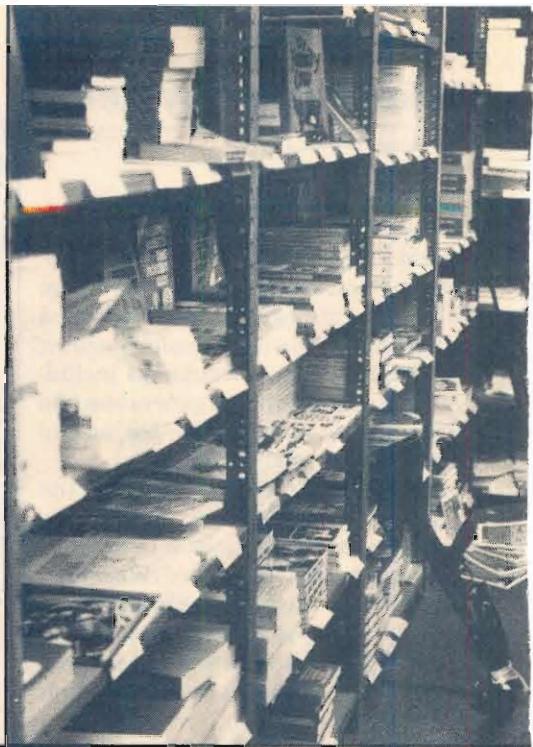
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SI's walk-in customer showroom is stocked with a large array of clothing, books and other equipment for the survivalist.

Staff Report

READERS familiar with this magazine know that SI — short for Survival Incorporated, and formally, SI Equipment, Ltd. — has been a leading supplier of quality survival gear and foods for more than 20 years.

Founded by Bill Pier, the company has steadily grown over the years to

where it can offer its customers a range and variety of survival gear and emergency storage foods unmatched by any other company in the business.

Recently, SI has undergone a management change and moved to a new location along with a reorganization of its operations that includes a walk-in showroom for retail customers. Bill Pier is still owner and chief executive but Steve Adkisson is now in charge of

daily operations at the 15600 S. Figueroa Street warehouse and showroom in Gardena, California.

"We want ASG's readers to know we're fully operational now following our move and better than ever, with a wide-ranging line of survival equipment, emergency foods and books to help the survivalist meet any emergency situation," says Steve.

"We have a trained sales staff to



Merchandise stocked and prepared for shipment in a section of SI's large warehouse.



Some of the latest items offered for sale by SI include new and used U.S. and foreign military clothing, sophisticated radiation detection and monitoring equipment, the 5 Minute Escape Device Life Saver Air Capsule (see New Products section of this issue for more information on this device) and SI's 3 Day Emergency Supply kit.



Steve Adkisson with SI's sales staff at the entrance to the company's new offices, showroom and warehouse in Gardena, California.

assist our mail order and telephone order customers as well as those wishing to visit our showroom and purchase our products in person."

SI is open for business Monday through Thursday from 8 a.m. to 5 p.m.

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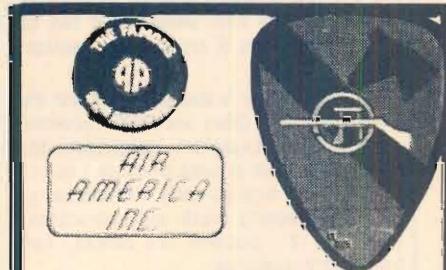
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SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0501

Dallas Metroplex, North Texas. Wishing to contact all parties interested in forming a survivalist group in this area. Just starting so open to all, no restrictions. Lets pool our knowledge, form some objectives and at least be the better for trying. All replies held in strict confidence.

ASG 0502

Herod, Illinois. Well prepared survival group in midst of Shawnee National Forest. We have a large privately owned self-sufficient farm with survival campsites. We do not take the gloom and doom approach, but rather, we enjoy a multitude of year-round recreational facilities and activities while practicing preparedness and sustainability for surviving any future crisis. We are oriented for families and singles, both sexes and all ages. We are patriotic to the United States of America and do not discriminate against any race or religion. All correspondence will be answered.

ASG 0503

Thompson Station, Tennessee. Experienced in intelligence/reconnaissance, close assault and contra-type operations. Expertise in man tracking, maneuver warfare, deception, night operations, recon patrolling, combat intelligence guerrilla warfare and light infantry tactics. Former paratrooper officer and DOD consultant. Graduate of Special Forces, Psychological Warfare and Counterinsurgency courses at Fort Bragg. I am a published author and available for lectures or weekend seminars. I am not connected with any U.S. government agency or service. I am interested in setting up a survival group in the mountains of Tennessee and North Carolina.

ASG 0504

United States. The Phoenix Survivalist Organization is a national survivalist organization that is currently accepting applications for membership. Membership is open to all persons, age 18 or older, regardless of race, sex, national origin, or occupation. All records and membership will be kept strictly confidential at all times. We can be the largest and the best. We have a lot to offer and we can provide the safety and security for our families in the future. No gays, communists, druggies, or satanists welcome.

ASG 0505

South Florida. Group dedicated to surviving well economically in all contingencies. We have land, a good economic base, sustainable agriculture, alternate energy, and uninterrupted positive cash flow. We need new members, especially single women of all ages. Female senior citizens welcome.

ASG 0506

Northern California. Would like to meet others with gear and knowledge to live out of only what can be carried on foot when time comes for the computer I.D. stamp, tattoo money system.

ASG 0507

Flint, Michigan. I am interested in joining or starting a wilderness survival group in the area. Will reply to all serious persons only.

ASG 0508

Lexington, Kentucky. I am a 17-year-old male who is interested in corresponding with other survivalists regardless of age, sex, etc., on topics relating to survival, defense, protection, law in the 90s, why vigilantes are looking better and better every day. No anti-Americans, anarchists, or punks.

ASG 0509

North Eastern Pennsylvania. Attention all survivalists! Young male (18) would like to hear from other survivalists who enjoy all fields of survival. Also would like to organize monthly newsletter so we could exchange various ideas and possibly start group. No psychos, liberals commies or crazies.

ASG 0510

Tri-Cities, Washington. S.W.M., 28, seeks female or interested party for wilderness stay to hone skills in Ninjutsu, observe wildlife, test ideas in survival. I am an experienced woodsman with great respect for the outdoors. No Rambo. My own religion. Re-emerge in one year to write book about experience. Substantial investment in equipment and training have been obtained. Will help and teach right party.

ASG 0511

Northern Lower Michigan. Survivalist wishing to hear from other survivalists to exchange ideas and form a group; one that will work as a team and prepare to survive whatever tomorrow brings. Level-headed and honest only need reply.

ASG 0512

Jensen Beach, Florida. 42-year-old 'Nam Vet—Navy Corpsman leaving Florida spring 1989 in fully equipped 35 ft. motorhome. Looking for an area or group where my extensive medical knowledge can be put to use to benefit mankind. Would

like an area off the beaten path, but near a financially and economically secure location. Want to insure that this country is a fit place for my children and theirs to live in. Will trade instruction for small plot of clear deeded land. Have extensive medical and survival library.

ASG 0513

Asheville, North Carolina. Extremely low profile person would like to correspond with others in mid-Atlantic region (NC, SC, TN, KY, VA, WV, DC, MD) who are low profile types. Age, sex, race or occupation totally irrelevant. Very interested in network for trading, barter, cross-training and group buying. Special interest in family types. We are very patriotic and believe in being prepared.

ASG 0514

United States. Strong international survivalist organization needs people with military experience (combat veterans, ex-military, ex-police, etc.) who are able to relocate. Disability is not a factor and all disabled veterans are welcome. Membership is open to all. We offer a close environment with strong support for members. Please send a brief background history for further info. Never forget MIAs.

ASG 0515

LaCrosse, Wisconsin. Family oriented, middle age teacher, long time survivalist and outdoors person. Specialized in storage, equipment, wilderness skills, and nuclear matters. Looking for Minn./Wisc. friends or similar interests. Survivalism is much more than guns and geiger counters.

ASG 0516

Coronado, California. 24-year-old caucasian male survivalist into farming, hunting, fishing, trapping and backpacking in the brush. Currently in the armed forces. In excellent health, seeks 20-29 year old female with similar interest for commitment/marriage as a survivalist couple. Must be non-smoker, no drugs, with Christian morals. Must be willing to relocate.

ASG 0517

North Central Louisiana. Alliance, a newly formed coalition of several splinter survivalist groups including their most recent, Triad, is looking for other survivalist groups to form nationwide network. Training facilities include woodland combat training, orienteering, and weapons training. New applicants welcome. Serious conservative inquiries only.

ASG 0518

Winchester, Virginia. Wilderness survival group is opening its membership to new members. We train. Meetings and outings every month. Male or female.

ASG 0519

United States. Beginning a network of Christian survivalists interested in future safety and security.

ASG 0520

St. Cloud, Florida. 16-year-old male. Don't let my age fool you, I'm a serious survivalist and wish to contact fellow survivalists, groups, and training centers. Would like to form a national survival network. Only serious mail answered.

ASG 0521

Lethbridge, Alberta. I am seeking other survivalists in Calgary, Edmonton, Red Deer, Medicine Hat. Male or female, families. Would also like to hear from other people from Canada and the States. Serious inquiries only. No Rambo types.

ASG 0522

Northwest Pennsylvania. Small survival organization would like to correspond with survival minded individuals in Forest, Jefferson, Venango and Clarion counties. Our goal is to form a strong regional organization to provide safety for our members and families. Will reply to all sincere rational inquiries. Strictly confidential.

Address response letter as follows:

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Your letters will be forwarded to persons listed within two days of receipt. *American Survival Guide* accepts no responsibility for loss or delay of letters. Contact letters that do not carry the appropriate code number will be discarded.

Those who wish to be added to the directory listing, please send names and addresses to *American Survival Guide*, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free. ●

Hirtenberger Ammo, NASS Targets

(Continued from page 38)

tests, but we also lacked the time. We blew a good chunk of the day testing the 9mm ammo.

So it was with guns formerly sighted in with something else, and with cold barrels, that we began our testing. What this really means, though, is the first one or two rounds may print different from the rest, but after that things should go along smoothly. But who cares where a gun prints on paper when you're shooting for group sizes. All you care about is how tight the group is. When it prints tightly, then you can adjust the sights for that particular round so it will print dead center or wherever you want it.

The 7.62mm NATO loading features a machined bronze alloy bullet of internal prefractioned design and truncated cone external design. The small lead nose is sufficient to get expansion reliably stated.

Chart "C" provides the results of our rifle tests. Groups are for five rounds, measured center-to-center extreme spread.

CHART "C"
(100 YARDS)

RIFLE	AMMO	GROUP
AR-15	Hirten 55 Gr	4"
M-1A	Hirten 165 Gr	4 1/4"
FN FNC	Hirten 55 Gr	2 3/8"
FN FAL	Hirten 165 Gr	4 3/8"
H&K 93	Hirten 55 Gr	3"
H&K 91	Hirten 165 Gr	2"
AR-15	Hirten 55 Gr	3 3/8"
M-1A	Hirten 165 Gr	4 3/4"
FN FNC	PMC	2 13/16"
FN FAL	PMC	Off
		Target
H&K 93	PMC	Off
		Target
H&K 91	PMC	4 1/2"
H&K 91	PMC	3 1/2"

While these groups may not be exceptional for rifles and carbines at 100 yards, we feel they are acceptable for guns being fired with open metallic sights. Had these long guns been scoped, we're sure we could have matched the 1 to 1 1/2 minutes of angle claimed by the manufacturer. •

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Ventilatory Assistance in the Field

(Continued from page 25)

attached to an oxygen source).

From the perspective of cleanliness and contact with the patient's fluids, this device is the best yet. The difficulty encountered in squeezing the bag is an indication of how patent the airway is. If the airway is obstructed and the mask is sealed properly on the patient's face, it will be very difficult to squeeze the air out of the bag. In this case, the airway must either be cleared or an airway maneuver (such as the modified jaw thrust) performed.

There are a couple of disadvantages to this device. Like the pocket mask, the face mask of most bag valve mask assemblies requires two hands to properly maintain a seal on the patient's face. Obviously, if a lone rescuer is attempting to ventilate a patient with this device, the rescuer is going to come up shorthanded, in a literal sense. With two hands on the face mask it is extremely difficult to adequately squeeze the resuscitator bag. One hand on each, if the rescuer has large hands, will work, but still not as efficiently as two hands on the mask and at least one on the bag would.

Resuscitator bags (also commonly referred to as ambu bags) usually come in three sizes — adult, pediatric, and infant. An experienced rescuer can limit the amount of force applied to an adult ambu bag when using it on a child, but an adult face mask will usually be too large to acquire any kind of seal on the patient's face. Unless equipped with a special pressure relief valve and appropriate size mask, a pediatric bag cannot be used on an infant.

Hospital, Field — In the hospital setting, and within the last five years or so in the field, trained personnel have been endotracheally intubating (placing an ET tube into the trachea of patients in order to provide definitive airway management).

Prior to this time, endotracheal intubation was seldom seen outside the operating room or emergency room.

A step toward field use of this device occurred with the use of the Esophageal Obturator Airway and the Esophageal Gastric Tube Airway. These tubes were designed for paramedic personnel to place down a patient's throat, into his esophagus.

A thin rubber balloon (cuff) at the

end of the tube was inflated in the esophagus thus occluding it and preventing aspiration.

Hospital studies showed varying results but most emergency medical personnel agreed that neither device was an adequate substitute for endotracheal intubation.

Endotracheal intubation is a skill which requires training and practice as well as special equipment. It involves using an instrument called a laryngoscope to hold the tongue out of the way and look down a patient's throat. Once the vocal cords are visualized an endotracheal tube is inserted to a point just below the cords. A technique known as "digital" or "tactile" intubation is also practiced by some rescuers. This does not require a laryngoscope, but takes a lot more practice and experience to be dependable.

With this technique, landmarks within the throat (primarily the glottis) are felt with the fingers and the fingers are used to guide the tube into the trachea, rather than visualizing the landmarks.

At the end of the endotracheal tube is a cuff which is inflated via an attached air line, using a syringe. The inflated cuff helps to hold the tube in position. It also seals the trachea so that if the patient vomits, the material is not sucked into the lungs or airway (aspirated).

An ambu bag and one way valve assembly is attached to the end of the tube and the patient is ventilated very efficiently. For APPROPRIATELY TRAINED AND EQUIPPED rescuers this is the ideal means to secure a patient's airway. Even very experienced rescuers have difficulty intubating an occasional patient, however. The reasons are usually related to anatomical anomalies or an airway so obstructed with secretions that even with a suction machine the cords simply cannot be seen.

After considering these factors concerning airway management, Responics, Inc., of Monroeville, Pennsylvania, first came up with a new mask. Marketed as the "SealEasy" mask but known affectionately as "The Blob," this mask is quite flexible. Actually, it resembles a large plastic sliced bagel more than an innovation in life support masks.

This mask can be held in place using



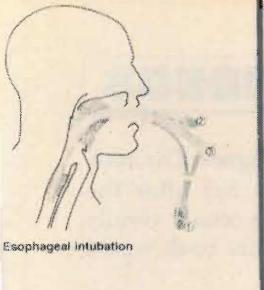
The BagEasy with SealEasy set in use with an oxygen supply. Note the thin reservoir bag inflated with oxygen.

one hand. It is sufficiently pliable to fit on virtually any size face, and provide an excellent seal. It can be used as a pocket mask or can be attached to an ambu bag.

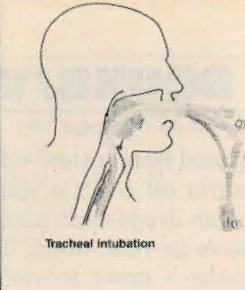
Responics, in fact, markets a product they call the BagEasy disposable resuscitator. This is simply a bag valve mask assembly, equipped with an oxygen reservoir, that incorporates a detachable "Blob" type mask. The suggested retail price of this set is \$20.50. At this price, given the aesthetic and disease considerations, not to mention the high efficiency of this system, the BagEasy set should be attached to any first aid kit of any magnitude greater than a box of bandaids. At this price, this is the perfect device to throw in the trunk of your car, "just in case."

The PTL Airway — Recently, Responics has completed testing and begun marketing a device they call the "ReviveEasy Pharyngeotracheal Lumen (PtL for short) Airway." This device incorporates the good points of endotracheal intubation while eliminating some of the risks. The most promising feature of the device is that it can be placed in the teen to adult sized patient with a minimum of patient manipulation. Thus, the device is excellent for use in the trauma patient. It is placed "blindly" and does not require a laryngoscope or other special instruments. Just as important, in clinical testing there have been no appreciable differences in blood gasses of patients ventilated using the PtL than those ventilated through an ET tube.

At first glance, the PtL appears to be a tangle of tubes and balloons. Closer scrutiny reveals an ingenious device that allows placement into a patient's throat and effective ventila-



Esophageal intubation



Tracheal intubation

PTL Airway esophageal and tracheal intubation.

tion regardless of the tube's position in either the trachea or esophagus! The airway consists of a long tube, labeled number 3, passing through the center of a shorter, green colored tube labeled number 2. Tube #3 is fit with a cuff which is large enough to occlude the esophagus. Tube #2 is fit with a balloon that, when inflated, fills the entire mouth and upper throat (oropharynx). This balloon eliminates the difficulty in attaining a good seal with a face mask. This is an important consideration in dealing with a patient who has sustained facial injuries. Equally important, this prevents blood or other secretions from traveling down the oropharynx and occluding the trachea, or down the esophagus to stimulate vomiting and adding to the problem.

Most of the airway management devices used in the pre-hospital setting are designed for use on children and adults. This author has personally used bag valve mask assemblies in attempts at resuscitating infants. They do not work nearly as well on infants as adults. With an infant, if he cannot be endotracheally intubated immediately, there is no substitute for good mouth to mouth ventilations.

Even after every aspect is considered, this author has never seen any rescuer, himself included, ever hesitate to perform mouth to mouth ventilations on a child or infant when such action was indicated. This procedure will probably remain the only effective alternative to intubation in these tragically young patients.

This article is not an advertisement or sales pitch for the products made by Respirationics. Most people instinctively wish to help an injured person. Unfortunately, with the prevalence of debilitating and even fatal diseases in people who may not appear to be sick, most people now hesitate to perform mouth to mouth, if needed.

The products described in this article can effectively, safely and inexpensively provide an alternative to performing mouth to mouth. They, or similar devices, are highly recommended for addition to any trauma bag, auto first aid box or medical cache. •

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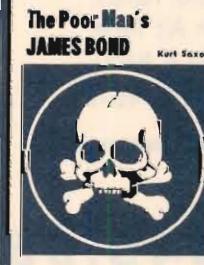
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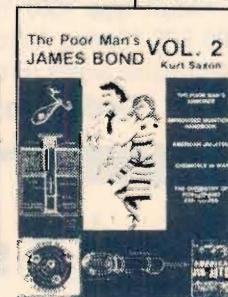
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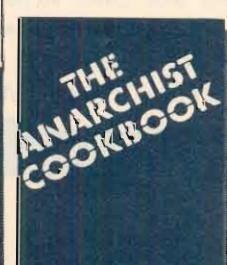
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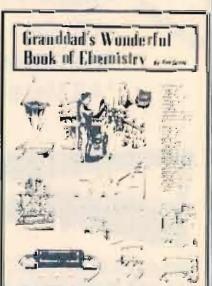
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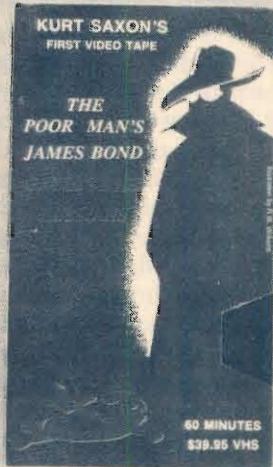
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BOOKS/VIDEOS

(Continued from page 13)

armed farmers and refugees. The book starts off a little slow but after the bomb drops each scene comes vividly alive in your mind. This book would make a great movie!



The Poor Man's James Bond Greets The Russians, Kurt Saxon's first video tape; Atlan "A" Formularies, Dept. ASG, P.O. Box 327, Harrison, AR 72601; (501) 743-2700; 60 minutes, color, VHS; \$39.95.

"A psychotic turned loose in a junk laboratory." This is how Saxon's Atlan "A" Formularies describes his debut on video tape. "Chillingly matter-of-fact about such subjects as gas tank bombs, poisons, and the hoped-for slaughter of our Russian friends, Saxon puts the gun in your hand, so to speak. This tape drafts you into the increasing army of partisans, freedom fighters and patriots preparing for foreign invaders or home-grown tyranny. Saxon has not only learned to love the bomb but looks forward to the real *Red Dawn*." In his home lab, Saxon cheerfully instructs the viewer on how to make the highly explosive Ammonium Nitrogen Tri-Iodide and use it to blow up vehicle gas tanks, how to make the deadly poison Ricin, light bulb Molotov cocktail gasoline bombs, and Saxon's Savage, an improvised nail weapon. To be sure, experimenting with explosives is dangerous, as Saxon attests when he notes that he blew the fingers off his left hand while doing so. We found this tape funny and very interesting, but this tape should be viewed for information purposes only. Making these substances yourself is not only extremely dangerous but may also be illegal. Whatever else may be said about this tape, it's vintage Kurt Saxon. •

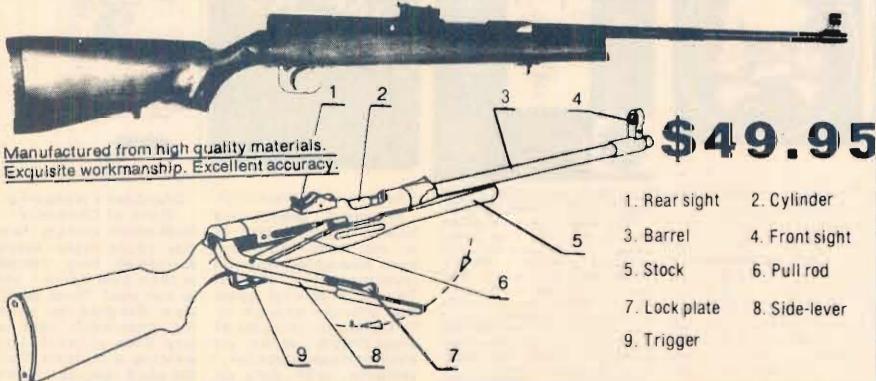
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Staff Report

JAMES L. Williamson, a certified Peace Officer, federal contract guard, handgun hunter and I.P.S.C. shooter, won the OMEGA 10mm pistol from Springfield Armory as the top prize in ASG's 1988 Giveaway No. 3 contest. Mr. Williamson wrote us saying he was "surely surprised, amazed, and flabbergasted" to learn that he had won first prize. He assured us that due to the nature of his work as a Peace Officer and as an avid handgun hunter and shooter, that the OMEGA pistol would receive plenty of use.

The second prize, a Ninja 700 Kawasaki generator, went to a contestant in Pennsylvania who wished to remain anonymous.

Prize No. Three went to Jon M. Rodabaugh, 41, of Middletown, Pennsylvania. He listed his occupation as engineer. Jon won the Tomcat folding bowie from SOG Specialties.

Claudio Dipiramo of Vallejo, California, won fourth prize, a handy survival kit/knife sheath that holds over 69 items including first aid kit, fishing accessories, matches, signal mirror, parachute cord and other useful survival tools.

Fifth prize, an H20K water filtration unit went to Nicholas James, a 41-year-old physician residing in East Wiliston, New York.

Our computer analysis of the entries showed that over 1,700 people entered the 1988 contest No. 3. The top three states leading in entries returned were California, Texas and Florida. It was interesting to note a big rise in the numbers of responses from Illinois, Georgia, Missouri and Tennessee. Please remember that in any of ASG's give-away contests only one entry can be submitted per person. We had to disqualify quite a few people because of multiple entries. •

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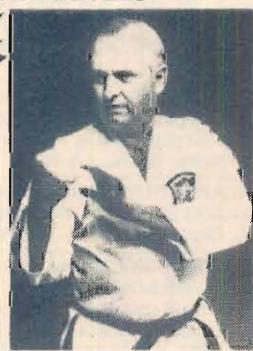
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MAIL CALL

Latron Laser Sight

I have not received the laser sights from LATRON Corporation which advertised the "LATRON 2001" in your magazine. I have been in contact with a sufficient number of Ohio State agencies about the LATRON Corp. (where it was located) to believe that this is a case of deliberate mail fraud. I would like all your readers who find themselves in a similar predicament regarding LATRON to contact me. I will collate the names and addresses of all parties involved and forward the list to the Ohio State Attorney General's Office, Consumer Protection Agency and the Inspector In Charge of the Cleveland, Ohio, Post Office. Please contact by phone or letter: Roy Shepard, 7993 Smoketree Ct., Largo, FL 34643-1617; (813) 530-9453 (between 6 and 11 p.m. EST). If I am not at home please leave your name, address and phone number on the answering machine.

Roy Shepard
Largo, Florida

We have had several complaints about LATRON from readers like yourself. They owe us money as well. Hope this helps.

Survival BBS

We are a Northcoast Survival BBS (computer bulletin board service) in the Cleveland Ohio area. We've been online for over a year and usage is free! We do like the users to contribute to the BBS by adding information to share with others. This info could be a first hand experience or knowledge that they learned from someone, etc. There are several sub-boards with topics of interest in different areas of survivalism. Files are saved in ASCII format so everyone can have access to the data. Protocol is 8 bit, 1 stop, no parity, 300 or 1200 baud. If your computer has a modem give us a call at (216) 291-2616 anytime of day.

Dale Tyjeski and Fred Pohto
Cleveland, Ohio

Computer bulletin boards are a great way to exchange ideas and information on survival. If there are any other BBS systems dealing with survival, we would encourage them to send us their protocols and online phone number. We will then print the numbers in a future Mail Call column.

Protection from EMP

I would like to compliment Mr. Long on his simplification of a difficult subject, "Protection from EMP" in your February 1989 issue. I would, however, like to know from what sources he draws his information. His information pertaining to the inherent EMP resistance of automobiles seems to contradict other authors who have written on the subject. Mr. Long also says that the equipment inside a Faraday cage must not touch the metal container and yet aren't most electronic ignition modules grounded to the auto's frame?

Mathew L. Brasic
Manhattan, Kansas

Unfortunately, "real world" experiments often contradict theoretical answers and I'm afraid this is the case with cars and EMP. My source of information came from Dr. Kit Haaland (who works at Oak Ridge National Laboratories). Apparently, cars have proven to be resistant in actual tests using nuclear weapons as well as during more recent tests (with newer cars) with the U.S. military's EMP simulator. I think the main reasons for the ability of a car to resist EMP lies in the fact that its metal body is "insulated" by its rubber tires from the ground. This creates a Faraday cage of sorts. In the case of the car, the grounding wiring is grounded only to the battery; the entire system is not grounded in the traditional electrical wiring sense of actually making contact to the earth at some point in its circuitry. It is sitting on insulators of rubber. Not all cars are 100 percent EMP proof. Those parked near large stretches of metal and those with a high percent of IC circuitry might be more susceptible.

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PRIZE NO. 1

Striker 12 spring motor driven revolving drum 12-shot 12 gauge magnum-firing shotgun from Law Enforcement Ordnance Corp., Dept. ASG, Box 336, Ridgway, PA 15853; (814) 772-1616. An improved version of the original South African Striker revolving drum shotgun, the Striker 12 features a fixing shaft, stronger construction of the cylinder and charging holes for use of magnum loads, steel barrel shroud and other innovations

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PRIZE NO. 2

RWS Diana Model 52 .177 caliber magnum air rifle with side lever cocking and fixed barrel from Dynamit Nobel—RWS Inc., Dept. ASG, 105 Stonehurst Court, Northvale, NJ 07647. A powerful, highly accurate and effective tool for survival. One pull of the 33-pound side cocking lever will send a pellet out the barrel at 1,100 feet per second. Cocking automatically sets the safety. Trigger pull is 3.3 pounds. Front micrometer blade sight is adjustable for windage and elevation. High quality walnut stock. Value: \$355.



PRIZE NO. 3

The KG-22 semiautomatic carbine from Feather Industries, Inc., Dept. ASG, 2300 Central Ave., Suite K, Boulder, CO 80301; (303) 442-7021. The KG-22 Carbine is identical to the popular AT-22 Carbine except all KG-22 parts are treated with the patented "Kal-Gard" no-lubrication finish and have a tiger stripe-type camouflage color. After firing the weapon is stripped and the parts are wiped clean with a soft cloth. The finish is very tough and will last for many years. The carbine is light, weighing only 3.25 pounds empty. Barrel is removable and the gun will store in a space only 17 inches long. Magazine capacity is 20 rounds. The Giveaway gun comes with the camouflage nylon case shown, magazine and an accessory ventilated barrel shroud with the same Kal-Gard camo finish. Value is \$300.



PRIZE NO. 4

Machax Survival Tool from Becker Knife & Tool Corp., Dept. ASG, P.O. Box 44179, Cincinnati, OH 45244; (513) 231-9446. The heavy 1/4-inch thick, heat-treated, rust resistant phosphate finished 4140 chrome-moly blade of the Machax borrows the unmatched weight distribution of the renowned Gurkha Kukri knife, combines it with fine American steel, full-tang construction and Zytel scales large enough for a good working grip. An extremely strong and versatile cutting, chopping, prying and digging tool that comes with a sturdy black nylon sheath (leather sheath also available). Value: \$130.



PRIZE NO. 5

The Delta Raider from Benchmade Knife Company, Dept. ASG, 6513 Lankershim Blvd., Unit 100-B, North Hollywood, CA 91606; (818) 765-0120. The Delta Raider Model 120 incorporates Benchmade's unique S-curve cutting design to allow more cutting action and edge surface than other knives. The 7-inch blade is made of 400 series high carbon steel heat treated in an aerospace vacuum furnace and then sub-zero quenched for exceptional strength and durability. Handle is non-slip Kraton and is impervious to the elements. Comes with quality black leather sheath. Value: approximately \$120.



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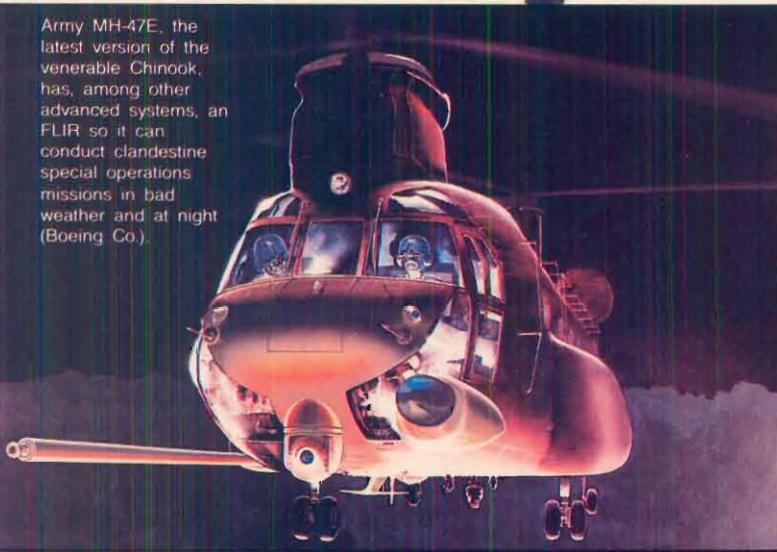
Seeing In The Night

IR, TI, FLIR, II, LLLTV — What are they? . . .

The Army's AH64A Apache attack helicopter has its FLIR mounted in one of the swiveling pods in its "chin" (McDonnell-Douglas Helicopter Co.).



Army MH-47E, the latest version of the venerable Chinook, has, among other advanced systems, an FLIR so it can conduct clandestine special operations missions in bad weather and at night (Boeing Co.).



The GP/NVB-4 Night Vision Goggle that uses Image Intensification (Baird Corp.).



MILITARY commanders have always wanted ways to see not only in the dark, but also through fog, mist, and the smoke of the battlefield.

Today, there is a plethora of devices that allow aircraft, helicopters, tanks and troops to operate effectively under poor visibility conditions, and most importantly without giving their presence away.

Some of this technology developed for the military, is now available commercially for law enforcement, nocturnal nature studies, security surveillance, or for just about anyone who wants to see through the darkness.

Before night vision devices were invented, about the only way to fight effectively at night was to turn the darkness into daylight. For centuries flares have been used and in this century, searchlights have often lit up the battlefield. Of course these methods made night combat as easy for the foe as the friendly. These were then active techniques, as is radar, the first electronic device for seeing an invisible enemy that saw widespread use.

Active Infrared — During the closing days of World War II, the first infrared systems starting appearing in combat. The Germans were the first to use IR systems, equipping their Konigstiger tanks, with the "Vampire" IR system that illuminated the target with an IR beam that was viewed through an IR sight. It turned out to be a rather impressive tank-killer, at least by World War II standards.

With active IR, a light beam is used to illuminate the target. Since infrared light can not be seen by the naked eye, special goggles are needed to see the illuminated target. However, if the enemy also has infrared detectors or goggles he too can see the light giving the attacker's position away.

Even with this rather significant disadvantage, IR systems were highly developed in 1960s and 1970s, most notably by the Soviets and Warsaw Pact countries. For instance, their tank and armored fighting vehicle (AFV) operators drove in the night using bulky and heavy Common User Binoculars (CUBs) fitted to their helmets or worn with special head-mounted harnesses. Besides, being rather uncomfortable, their narrow field-of-view produced tunnel vision and the IR systems distorted the image of the terrain. For example, shadows looked like

deep ditches. Not only were the goggles cumbersome, so were the battery packs needed to power the devices. IR systems were used in Korea, and the French used U.S. made equipment when they fought in Indo-China.

Thermal Imaging — Thermal imaging also takes advantage of the characteristics of infrared "light," but does it passively so only the user knows when it is in operation. Way back in 1800, Sir William Herschel discovered the fact that every object emits thermal energy in the IR spectrum. His son, Sir John Herschel took the first crude IR photographs of the sun some 40 years later.

Thermal imaging systems measure the thermal energy of an object against its background. By distinguishing minute variations in thermal radiation, the system is able to electronically display a thermal picture that can be viewed by the operator. In principle, TI operates like a TV camera, except in the infrared rather than the visible bandwidths.

While every object emits a thermal energy, much of the energy is absorbed by the atmosphere. Fortunately, there are two IR wavelength bands where this absorption is a minimum. These are in the 3-5 micron and 8-14 micron wavelength bands that correspond, respectively, to the heat given off by high temperature sources such as the exhaust from engines and low temperature sources such as humans. Thus you can see why the word "fortunately" was used and why TI is a valuable aid in combat.

Of all the battlefield vision aides, TI is probably the most effective since it can be used even when it is too dark for image intensifiers (II) which we will talk about in a moment. TI can not only see through the night, but it can also see through fog, mist and smoke. It can even see through camouflage to detect "hot targets" like tanks and trucks. Furthermore, TI can even be used effectively in broad daylight to find people or vehicles hidden behind camouflage or natural vegetation.

The British lead in TI developments, but the U.S. and France are not far behind. Today, the U.S. M1 Abrams Main Battle Tank (MBT) and M2/M3 Bradley Fighting Vehicle, British Chieftain MBT, French AM-30B2 MBT, and the German Leopard 2 MBT are equipped with TI equipment as probably are the Soviets' newest MBTs. There are many other TI systems available for ground troops and other

applications.

In order to operate, a TI system must be kept at a very precise, constant, cold temperature. This means the TI must be cooled and controlled very accurately, adding to its weight, complexity, and cost.

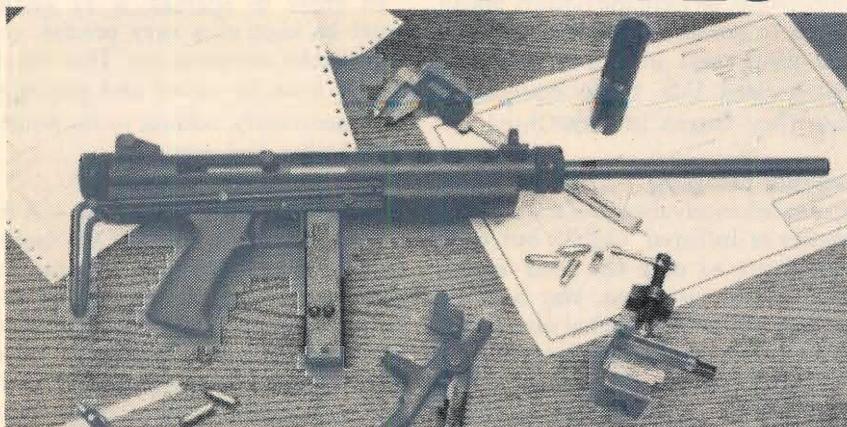
Forward Looking Infrared — A forward looking infrared (FLIR) system takes thermal imaging one step further by mounting it on a moving platform, usually an aircraft or helicopter. The FLIR presents a real-time infrared picture that allows an aircraft to fly and fight in the dark or under other limited visibility conditions. The image is presented to the pilot normally on his head-up display (HUD), or in the case of a helicopter, on the pilot's helmet mounted display. On aircraft with multiple crew members, the FLIR generated picture can be presented on a CRT screen.

The FLIR's TV-like picture can be used for just about all functions the pilot must perform from flying and threat identification to air-to-air combat or ground attack. FLIRs are also an important alternate to terrain-following radars with the advantage that they are passive. Since radars are active, it is possible for radar seeking for surface-to-surface missiles (SAM) to home in on the radar beam. Many aircraft like the F-16 fighter, AC-130 gunship, Apache attack helicopter, and AV-8 Harrier V/STOL fighter are equipped with FLIRs.

Image Intensifiers — Image Intensifiers (II), as the title implies, improves visibility under very low lighting conditions by amplifying the faintest moonlight or starlight reflections off an object, thus this equipment is often referred to as "starlight scopes." Because there must be some light to intensify, II equipment cannot work in complete darkness. (See *American Survival Guide*, December 1988 for a more complete story on II equipment and technology).

Image intensification equipment has been used by the military since the mid-1960s and the technology is currently in its third generation. The Night Goggles (NVG) used by Helicopter pilots to fly at night are one of the leading uses of II technology by the military. However, II technology has also been incorporated into telescopes, pocket scopes, weapons sights, and binoculars. Image intensifiers are readily available on the commercial market and are routinely used in security and

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Seeing In The Night

law enforcement, night photography, nocturnal entomology, and even to help people who suffer from night blindness.

Low Light Level Television — As this title indicates, Low Light Level Television (also called Low Light TV or LLLTV) is no more than television equipment and techniques that operate under very low light conditions. That is, they need very little illumination. But they cannot operate in total darkness since LLLTVs use image intensification, the same technology used, for example, in night vision goggles.

Because LLLTV represents the marriage of two mature technologies, image intensification and television, equipment is reasonably simple and relatively low cost. In many cases the LLLTV consists of mounting an II tube on the front end of a TV camera. It has the advantage that both the camera and the viewing screen can be located in different locations. For example, the camera could be located on the battlefield or even in a remotely piloted vehicle hovering in the air over the enemy's position, while the operator could be safe and cozy in a trailer some distance from the battlefield. Also watching a TV monitor is a lot less tiring than viewing through a TI viewfinder or sight or through a set of night vision goggles.

Although LLLTV is used in MBTs to help fight and drive, one of its greatest uses is for security surveillance. For example it can be used to watch for intruders without them knowing it because there is no need to light the area as would be the case with regular TV cameras. Also several LLLTVs can be mounted in several remote locations and monitored from a single CCTV (closed circuit TV) console.

LLLTVs are used extensively for news gathering by the media. Other civil applications include search and rescue, monitoring of territorial waters, and policing offshore environmental laws. LLLTVs are also used in such diverse jobs as controlling robots, underwater studies, industrial inspections, astronomy, and even inspecting the inside of pipelines. LLLTVs have also been used as an alternative to FLIRs, but of course they are limited to operations conducted during dawn or dusk because they rely on image intensification. •

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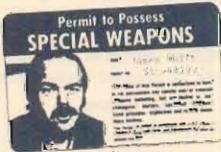
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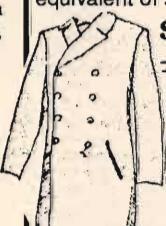
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